

ECE Inventory as of Fall 2017

CATEGORY	Location	Part_Number	Substitute	Description	Vender
	A-3-001				req
	A-3-002				
	A-3-004				
	A-3-005				
	A-3-006				
	A-3-007				
	A-3-008				
	A-3-009A	64ALS109			
	A-3-012	74ALS240			
	A-3-013A	74ALS245			
	A-3-030				
	A-3-031	SNT5962			
	A-3-032	HM6116/2		2048-word X 8bit High Speed CMOS Static RAM	
	A-3-033	6264/15		64 k SRAM (8-kword x 8-bit)	
	A-3-035	N8223B		ATM Transmitter/Receiver with UTOPIA Interface	
	A-3-056				
	A-3-057				
	A-3-058				
	A-3-059				
	A-3-060				
	A-3-063	74C30			
	A-3-067A	74C245			
	A-3-071A	74ACT297			
	A-3-076A	74H15			
	A-3-077A	74S13			
	A-3-084B	74LS189		In stock but NLA on Digi Key site	
	A-3-089				
	A-3-090	TMS4256		262,144-BIT DYNAMIC RANDOM-ACCESS MEMORY	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
	A-3-090B	6522			
	A-3-091	AM2812		32X8 FIRST-IN FIRST-OUT MEMORY	
	A-3-094	X25020P		2K (256 x 8) EEPROM	
	A-3-095	7929GP			
	A-3-099A	D8251C			
	A-3-103	MPS6532			
	A-3-104	INS8035N			
	A-3-104A	AM8085APCB			
	A-3-106B	MC14411		BIT RATE GENERATOR	
	A-3-106C	MC1468		Adjustable Positive Voltage Regulator - 8.0V to 20V	
	A-3-107	TMS4024		9 X 64 DIGITAL STORAGE BUFFER (FIFO)	
	A-3-107B	M3764			
	A-3-109A	ADC0809N		CMOS ANALOG-TO-DIGITAL CONVERTERS WITH 8-CHANNEL MULTIPLEXERS	
	A-3-110	P8102			
	A-3-110A	UPB8212		8-Bit Input/Output Port	
	A-3-111	DAC1022LCN		10-Bit Binary Multiplying D/A Converter	
	A-3-111A	AD7524JN		CMOS 8-Bit Buffered Multiplying DAC	
	A-3-111B	ADC0803LCN		CMOS 8-bit A/D converters	
	A-3-113	CD4511		BCD-to-7 Segment Latch/Decoder/Driver	
	A-3-113A	SCL4512BE		CMOS 8-CHANNEL DATA SELECTOR	
	A-3-115	CD4519BCN		CMOS 4-Bit AND/OR Selector, Quad 2-Channel Data Selector, or...	
	A-3-115C	CD4526BCN			
	A-3-116B	SCL4528BE			
	A-3-117A	MC14531B		12-BIT PARITY TREE	
	B-4-001	7436	A-1-104		
	B-4-002	7475	A-2-013		
	B-4-003	7490	A-2-020		
	B-4-013	555	A-2-118		
	B-4-014	AM2732DC			
	B-4-025	MM4666			

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	B-4-027	MM5624			
	B-4-028	MM5651			
	B-4-029	MM5666			
	B-4-030	MPD2114LC			
	B-4-031	P8448			
	B-4-032	NE561		Solid State Sensors Closed Loop Current Sensors	
	B-4-033	NE562			
	B-4-034	TMS2532JL-45			
	B-4-035	TMS2532JDL-45			
	B-4-037	Z80AC PUB1			
	B-4-039	TK1407		10K TYPE COIL, .41UH 49MHZ	Digi-Key
	B-4-040	MC2831AP		TRANSMITTER LOW POWER FM SYSTEM	
	B-4-041			RESONATORS 600B, 600B2	
	B-4-042	Q4008L4		GATE TRIAC ISOLATED 8.0A 400V	Digi-Key
	B-4-043	V275LA15A		VARISTOR GE	
	B-4-044	MC3356P		GENERAL PURPOSE Transistor Array	Motorola
	B-4-045	15F2300			Newark
	B-4-047	567CP			
	B-4-048	KBPC108			
	B-4-048A	KBPC606			
	B-4-048B	KBPC608			
	B-4-049	L2004F31			Digi-Key
	C-1-041	MCP4162-103	4162103	SNGL 7B NV SPI Rheo MICRO DIGITAL POTENTIOMETER Ics	
	H-2-113				
	H-2-114				
	H-2-115				
	H-2-116				
	H-2-117				
	H-2-118				
	H-2-119				

CATEGORY	Location	Part_Number	Substitute	Description	Vender
	H-2-120				
	I-1-077				
7400 Series	A-1-001	7400		Gate Quad 2-input Pos-NAND	
7400 Series	A-1-002	7401		Gate Quad 2-input NAND w/Open Collector Outputs	
7400 Series	A-1-003	7402		Gate Quad 2-input Pos-NOR	
7400 Series	A-1-004	7403		Gate Quad 2-input NAND w/Open Collector Oputs	
7400 Series	A-1-005	7404	DM7404	Inverter Hex	DIGI-KEY
7400 Series	A-1-006	7405		Inverter Hex Open Collector Oputs	
7400 Series	A-1-007	7406		Inverter Hex Driver w/High V Open Collector Oputs	
7400 Series	A-1-008	7407		Hex Driver W/High V Open Collector Oputs	
7400 Series	A-1-009	7408	74LS08	Gate Quad 2-Input Pos-AND	
7400 Series	A-1-010	7409		Gate Quad 2-Input Pos-AND w/Open Collector Oputs	
7400 Series	A-1-011	7410		Gate Triple 3-Input Pos-NAND	
7400 Series	A-1-012	74100		Latch 8-Bit Bistable	
7400 Series	A-1-013	74107		Dual JK Flip-Flop w/Clear	
7400 Series	A-1-014	74109		Dual JK Pos-Edge-Triggered Flip Flop w/Preset & Clear	
7400 Series	A-1-015	7411		Gate Triple 3-Input Pos-AND	
7400 Series	A-1-016	74112		Dual JK Neg Edge Trig Flip-Flop w/Preset & Clear	
7400 Series	A-1-017	74113		Dual JK Neg Edge Trig Flip-Flop w/Preset	
7400 Series	A-1-018	74114		Dual JK Neg Edge Trig Flip-Flop w/Preset Clear & Com Clk	
7400 Series	A-1-019	74116		Latch Dual 4-Bit	
7400 Series	A-1-020	7412		Gate Triple 3-Input Pos-NAND w/Open Collector Oputs	
7400 Series	A-1-021	74121		Multivibrator Monostable	
7400 Series	A-1-022	74122		Multivibrator Retriggerable Monostable w/Clear	
7400 Series	A-1-023	74123		Multivibrator Dual Retriggerable Monostable w/Clear	
7400 Series	A-1-024	74125		Quad Bus Buffer Gates w/3-State Oputs (C-Hi Oput Off)	
7400 Series	A-1-025	74126		Quad Bus Buffer Gates w/3-State Oputs (C-Low Oput Off)	
7400 Series	A-1-026	74128		50 ohm Line Driver	
7400 Series	A-1-027	7413		Schmitt Trigger Dual 4-Input Pos-NAND	
7400 Series	A-1-028	74132		Schmitt Trigger Quad 2 Input Pos-NAND	

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7400 Series	A-1-029	74133		Gate 13 Input Pos-NAND	
7400 Series	A-1-030	74136		Gate Quad Exclusive-OR w/Open Collector Oputs	
7400 Series	A-1-031	74139	74LS139	Decoder/Multiplexer Dual 2-to-4 Line	
7400 Series	A-1-032	7414		Hex Schmitt-Trigger Inverter	
7400 Series	A-1-033	74145		Decoder/Driver BCD-to-Decimal for Lamps, Relays, MOS	
7400 Series	A-1-034	74147		10-Line Decimal-to-4-Line BCD Priority Encoder	
7400 Series	A-1-034B	74HC7014N		IC BUFFER HEX SCHM TRIG 14 DIP	Digi-Key
7400 Series	A-1-035	74148		8-Line-to-3-Line Octal Priority Encoder	
7400 Series	A-1-036	74150		16-Line-to-1-line Data Selector/Multiplexer	
7400 Series	A-1-037	74151		8-Line-to-1-Line Data Selector/Multiplexer	
7400 Series	A-1-038	74152		1 of 8 Data Selectors/Multiplexers	
7400 Series	A-1-039	74153		Dual 4-line-to-1-line Data Selectors/Multiplexers	
7400 Series	A-1-040	74154		4-Line-to-16-Line Decoders/Demultiplexers	
7400 Series	A-1-041	74155		Dual 2-Line-to-4-Line Decoders/Demultiplexers	
7400 Series	A-1-042	74156		Dual 2-Line-to-4-line Decoders/Demultiplexers w/Open Collector Oput	
7400 Series	A-1-043	74157		Quad 2-line-to-1-line Data Selectors/Multiplexers	
7400 Series	A-1-044	74158		Quad 2-to-1-Line Data Selector/Mulplex Inverted Oputs	
7400 Series	A-1-045	74159		4-Line-to-16-Line Decoders/Demultiplexers w/Open Collector Oput	
7400 Series	A-1-046	7416		Hex Inverter Buffer/Driver w/Open Collector Hi V Oput	
7400 Series	A-1-047	74160		Synchronous 4-Bit Counter - Decade Direct Clear	
7400 Series	A-1-048	74161		Synchronous 4-Bit Counter - Binary Direct Clear	
7400 Series	A-1-049	74138		3 to 8 Line Decoder/Demultiplexer	
7400 Series	A-1-050	74163		Synchronous 4-Bit Counter - Binary Synchronous Clear	
7400 Series	A-1-051	74164		8-Bit Parallel Oput Serial Shift Register - Asynch Clear	
7400 Series	A-1-052	74165		Parallel Load 8-Bit Shift Register w/Complmnty Oput	
7400 Series	A-1-053	74166		8-Bit Shift Register Parallel/Serial lput - Serial Oput	
7400 Series	A-1-054	7417		Hex Buffer/Driver w/Open Collector - Hi V Oput	
7400 Series	A-1-055	74173		4-Bit D Type Register - 3 State Oput	
7400 Series	A-1-056	74174		Hex D-Type Flip-Flop w/Single Rail & Common Direct Clear Oput	
7400 Series	A-1-057	74175		Quad D-Type Filp-Flop w/Complmnty & Common Direct Clear Oput	

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7400 Series	A-1-058	741760		Presetable Counter/Latch - Decade Bi-Quinary	
7400 Series	A-1-059	74177		Presetable Counter/Latch - Binary	
7400 Series	A-1-060	74180		9 Bit Odd/Even Parity Generator/Checker	
7400 Series	A-1-061	74181		Arithmetic Logic Units/Function Generator 16/16 Math/Logic F	
7400 Series	A-1-062	74190		Synchronous Up/Down Counters - BCD	
7400 Series	A-1-063	74191		Synchronous Up/Down Counters - Binary	
7400 Series	A-1-064	74192		Synchronous Up/Down Dual Clock Counter - BCD w/Clear	
7400 Series	A-1-065	74193		Synchronous Up/Down Dual Clock Counter - Binary w/Clear	
7400 Series	A-1-066	74194		4-Bit Bidirectional Universal Shift Register	
7400 Series	A-1-067	74195		4-Bit Parallel Access Shift Register	
7400 Series	A-1-068	74196		Presetable Counter/Latch - Decade/Bi-Quinary	
7400 Series	A-1-069	74197		Presetable Counter/Latch - Binary	
7400 Series	A-1-070	74198		8-Bit Bidirectional Universal Shift Register	
7400 Series	A-1-071	74199		8-Bit Bidirectional Universal Shift Register J-K Serial Input	
7400 Series	A-1-072	7420		Dual 4-input Pos-NAND Gate	
7400 Series	A-1-073	7421		Dual 4-input Pos-AND Gate	
7400 Series	A-1-074	7422		Dual 4 Input Pos-NAND w/Open Collector Output	
7400 Series	A-1-075	74221		Dual Monostable Multivibrator	
7400 Series	A-1-076	7423		Expandable Dual 4-Input Pos-NOR Gate w/Strobe	
7400 Series	A-1-077	74240		Octal Buffer/Line Driver/line Receiver - Inverted 3-State Output	
7400 Series	A-1-078	74241		Octal Buffer/Line Driver/Line Receiver Noninvert 3-State Output	
7400 Series	A-1-079	74244		Octal Buffer/Line Driver/Line Receiver Noninvert 3-State Output	
7400 Series	A-1-080	74245		Octal Bus Transceiver Noninvert 3-State Output	
7400 Series	A-1-081	74247		BCD to 7 Segment Decoder/Driver Active-Low Open Collector 15V Output	
7400 Series	A-1-082	7425		Dual 4 Input Pos-NOR Gate w/Strobe	
7400 Series	A-1-083	74251		Data Selector/Multiplexer True & Inverted 3-State Output	
7400 Series	A-1-084	74257		Quad Data Selector/Multiplexer Noninvert 3-State Output	
7400 Series	A-1-085	74258		Quad Data Selector/Multiplexer Inverted 3-State Output	
7400 Series	A-1-086	7426		Quad 2-input HV Interface Pos-NAND Gate	
7400 Series	A-1-087	74260		Dual 5-Input Pos-NOR Gate	

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7400 Series	A-1-088	74266		Quad 2-Input Exclusive-NOR Gate w/Open Collector Oput	
7400 Series	A-1-089	7427		Triple 3-Input Pos-NOR Gate	
7400 Series	A-1-090	74273		Octal D type Flip Flop - Comm Clock- Single Rail Oput	
7400 Series	A-1-091	74276		Quad J-K Flip Flop Separate Clocks Edge Trig Comm Direct Clear & Prese	
7400 Series	A-1-092	74279		Quad S-R Latches Diode-Clamp Input Totem-Pole Oput	
7400 Series	A-1-093	7428		Quad 2 Input Pos-NOR Buffer	
7400 Series	A-1-094	74280		9 Bit Odd/Even Parity Generator/Checker	
7400 Series	A-1-095	74283		4-Bit Binary Full Adder	
7400 Series	A-1-096	74290		Decade Counter - Divide by 2 & by 5	
7400 Series	A-1-097	74293		4-Bit Binary Counter - Divide by 2 & by 8	
7400 Series	A-1-098	74298		Quad 2 Input Multiplexer w/Storage	
7400 Series	A-1-099	74299		8-Bit Bidirectional Universal Shift/Storage Register 3-State Oput	
7400 Series	A-1-100	7430		8-Input Pos-NAND Gate	
7400 Series	A-1-101	7432		Quad 2-Input Pos-OR Gate	
7400 Series	A-1-102	7433		Quad 2-Input Pos-NOR Buffer w/Open Collector Oput	
7400 Series	A-1-103	74347		Decoder BCD to 7 Segment	
7400 Series	A-1-104	74365		Hex Bus Driver - Non-Inverted 3-State Oput Gate Enabled Input	
7400 Series	A-1-105	74366		Hex Bus Driver - Inverter 3-State Oput Gated Enabled Input	
7400 Series	A-1-106	74367		Hex Bus Driver - Non-Inverted 3-State Oput Organized to Handle 4-Bit	
7400 Series	A-1-107	74368		Hex Bus Driver - Inverter 3-State Oput Organized to Handle 4-Bit	
7400 Series	A-1-108	7437		Quad 2-Input Pos-NAND Buffer	
7400 Series	A-1-109	74373		Octal D-Type Latch - 3-State Oput Common Oput Control	
7400 Series	A-1-110	7438		Quad 2-Input Pos-NAND Buffer w/Open Collector Output	
7400 Series	A-1-111	7439		Quad 2-Input Buffer NAND Gate - Open Collector	N/A
7400 Series	A-1-112	74390		Dual Decade Counter - Bi-Quinary or BCD Sequence	
7400 Series	A-1-113	74393		Dual 4-Bit Binary Counter	
7400 Series	A-1-114	74395		4-Bit Universal Shift Register - 3-State Oput	
7400 Series	A-1-115	74396		Register Octal Storage 4-Bit Wide Shift Register 2-Stage	
7400 Series	A-1-116	7440		Dual 4-Input Pos-NAND Buffer	
7400 Series	A-1-117	7442		4-Line-to-10-Line Decoder - BCD to Decimal	

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7400 Series	A-1-118	7445		BCD-to-Decimal Decoder/Driver - Lamp Relay or MOS Driver 80ma Current	
7400 Series	A-1-119	7447	74LS47N	BCD-to-7 Segment Decoder/Driver - Active Low Open Collector 15V Oput	
7400 Series	A-1-120	7448		BCD-to-7 Segment Decoder/Driver - Internal Pull-Up Oput	
7400 Series	A-2-001	7449		BCD-to-7 Segment Decoder/Driver - Open-Collector Oput	
7400 Series	A-2-002	7451		And-OR-Invert Gate - 51 H51 S51 Dual 2-Wide 2-Input Pos-Logic	N/A
7400 Series	A-2-003	7454		4-Wide And-OR Invert Gate - Pos-Logic	N/A
7400 Series	A-2-004	7455		2-Wide 4-Input AND/OR Invert Gate - Pos-Logic	N/A
7400 Series	A-2-005	74597		8-Bit Shift Registers w/Input Latches	
7400 Series	A-2-006	74640		Octal Bus Transceivers w/3-State Oputs	
7400 Series	A-2-007	74642		Octal Bus Transceivers w/Open Collector Oputs	
7400 Series	A-2-008	74645		Octal Bus Transceivers	
7400 Series	A-2-009	7470		AND-Gated J-K Pos-Edge Triggered Flip-Flop w/Peset & Clear	
7400 Series	A-2-010	7472		AND-Gated J-K Master-Slave Flip-Flops w/Preset & Clear	N/A
7400 Series	A-2-011	7473	74LS73	Dual J-K Flip-Flops w/Clear	N/A
7400 Series	A-2-012	7474		Dual D-Type Pos-Edge Triggered Flip-Flops w/Preset & Clear	
7400 Series	A-2-013	7475		4-Bit Bistable Latches	N/A
7400 Series	A-2-014	7476		Dual J-K Flip-Flops w/Preset & Clear	N/A
7400 Series	A-2-015	7478		Dual J-K Flip-Flops w/Preset, Common Clock, & Common Clear	N/A
7400 Series	A-2-016	7483		4-Bit Binary Full Adders w/Fast Carry	N/A
7400 Series	A-2-017	7485		4-Bit Magnitude Comparators	N/A
7400 Series	A-2-018	7486	74LS86	Quad 2-Input Exclusive-OR Gate	N/A
7400 Series	A-2-019	7489		64-Bit Read/Write Memory - 16 4-Bit Words	N/A
7400 Series	A-2-020	7490	DM7490	Decade Counter - Divide-by-2 & Divide-by-5	N/A
7400 Series	A-2-021	7491		8-Bit Shift Register - Serial-In Serial-Out Gated Input	N/A
7400 Series	A-2-022	7492		4-Bit Binary Counter - Divide-by-2 & Divide-by-6	N/A
7400 Series	A-2-023	7493	74LS93	4-Bit Binary Counter - Divide-by-2 & Divide-by-8	N/A
7400 Series	A-2-024	7494		4-Bit Shift Register - Dual Asynchronous Presets	N/A
7400 Series	A-2-025	7495		4-Bit Shift Register - Parallel-In/Parallel-Out Shift Right/Left Seria	N/A
7400 Series	A-2-026	7496		5-Bit Shift Registers	N/A
7400 Series	A-2-027	7497		Synchronous 6-Bit Binary Rate Multipliers	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
7400 Series	A-2-028	7415		Internally Compensated Ultra-Fast Transient Response 200-mA Low-V Drop	
7400 Series	A-2-029	7418		Fast-Transient-Response Using Small Oput Cap 200-mA Low-Dropout V	
7400 Series	A-2-030	74243		Quad Bus Transceiver - NonInverted 3-State Oput	
7400 Series	A-2-031	74374		Octal D-Type Transparent Latches & Edge-Triggered Flip-Flop	
7400 Series	A-2-032	74595	74HC595N	8-Bit Shift Registers w/Oput Latches	Mouser
7400 Series	A-2-033	74688		8-Bit Magnitude/Identity Comparator	
7400 Series	A-2-034	7435		Mini-LVDS Timing Controller	
7400 Series	A-2-035	75121		Dual Line Drivers	
7400 Series	A-2-036	75138		Quad Bus Transceiver	
7400 Series	A-2-037	75182		Dual Differential Line Receiver	
7400 Series	A-2-038	75404		?	
7400 Series	A-2-039	75452		Dual Very-High Speed, High-Current Peripheral Driver	
7400 Series	A-2-040	75453		Dual Very-High Speed, High-Current Peripheral Driver	
7400 SERIES	A-2-112	SN74LS5399		IC Quad 2 In MUX w/Storage 16 DIP	
7400 SERIES	C-1-040	SN74LS595N		IC 8BIT SHFT REG OUT LTCH 16DIP	
A/D	A-3-088	ADS7841P-ND		IC 12-BIT A/D 4CH SERIAL 16-DIP	
ADC	A-3-110B	MCP3008-I/P	MCP3008-I/P-ND	IC ADC 10 Bit 2.7V 8CH SPI 16Dip	Digi-key
ADC	A-3-110C	PCF8591P.112	568-1087-5-ND	IC ADC/DAC 8-Bit I2C 16-Dip	Digi-key
AMP	A-2-111	TL026		IC Video Amp	
AMP	B-1-002	LM7534J		Amp Core Memory Sense	
AMP	B-1-009	BUF634		Amp Buffered 30MHz / 180MHz	
AMP	B-1-043	LM2111N		Amp/Limiter Quad Detector FM	
AMP	B-1-068	LM380N		Amp Audio Power 2 W	
AMP	B-1-069	LM381N		Pre Amp Low Noise Dual	
AMP	B-1-070	LM386N		Amp Audio Low Voltage	
AMP	B-1-074	LM311N		Amp Audio Power	
AMP	B-1-074A	LM394CH		IC Super Matched NPN Pairs TO-5 Package	Digi-Key
AMP	B-1-081	LM703LN		Amp RF/IF	
AMP	B-1-084	LM733CN	N5733A	Amp Video Differential	
AMP	B-1-089	LM831M		Amp Audio Power Low Voltage	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
AMP	B-2-020	INA125P/U		Amplifiers - Instrumentation w/Precision Voltage Reference	Mouser
AMP	B-2-055	TBA810DS	NTE1115	AUDIO PWR AMP DIP-12	Mouser
AMP	B-2-056	LF398N	LF398RF	Sample & Hold Amp	
AMP	B-2-062	TDA2002		Amp Audio 10W	
AMP	B-2-088	INA126P	INA126P-ND	IC OPAMP INSTR 200KHZ 8DIP	Digi-Key
AMP	B-2-088	INA128P	INA128P-ND	Precision Low Power Instrumentation Amp 1.3MhZ	Digi-Key
AMP	B-2-088A	INA129P	INA129P-ND	IC OPAMP INSTR 1.3MHZ 8DIP	Digi-Key
AMP	B-2-091	LM4651N		Amp Audio Solution	
AMP	B-2-091A	NJM2076D-ND	NTE823	IC PWR AMP DUAL LOW-VOLT 8-DIP	Digi-Key
AMP	B-2-108	INA103KP		Instrumentation Amp Low Noise Low Distortion	
AMP	B-2-114	OPA2662AU		IC DUAL TRANSCONDUCT AMP 16SOIC	Digi-Key
AMP	B-2-115	LM377N	NTE990	Dual 2 watt Audio Amplifier	Mouser
AMP	B-3-009	INA121P		FET-Input, Low Power Instrumentation Amp	Digi-Key
AMP	B-3-010	INA122P		Single Supply, MicroPower	Digi-Key
AMP	B-3-011	INA232EA		IC R-R CMOS INSTR AMP 14-TSSOP	Digi-Key
AMP	B-3-012	AN7512		IC AUDIO AMP 2CH 1W 16 DIP W/FIN	Digi-Key
AMP	B-3-014	AMP04F		IC AMP INSTRUM PREC SGL 8-DIP	Digi-Key
AMP	B-3-015	INA128P		IC LP INSTRUMENTATION AMP 8-DIP	Digi-Key
AMP	B-3-016	INA217P		Audio Power Low Noise, Low- Distortion Amp	Mouser
AMP	B-3-024	TA7061BP	NTE1100	SIP-7 TV/SND IF AMP	Mouser
AMP	B-3-040	LM4881		Boomer Dual 200 Mw Headphone Amplifier with Shutdown Mode	
AMP	C-2-028	MPSA06		Trans, Amp NPN GP	Digi-Key
AMP	C-2-029	JA1200	NTE123AP	Trans, Si NPN, Audio Amplifier, Switch	Mouser
AMP	C-2-091	2N5484		Amp, RF, N Chan, 25 V 10ma	Newark
ARRAY	B-2-081	CA3060E		110khz, Operational Transconductance Amplifier Array	
ARRAY	B-2-097	ULN2803A		EIGHT DARLINGTON ARRAYS	
BATTERY	EE-10-001	TGY1218110112		Li-ION 2200mAh 40C 3.7V batt 4"" x1.3"x.25"	05-16-2013
BATTERY	EE-5-001	P649-ND		Battery Ind Alkaline AAA	Digi-key
BATTERY	EE-5-002	P646-ND		Battery Ind Alkaline AA	Digi-key
BATTERY	EE-5-003	N106-ND		Battery Ind Alkaline C	Digi-key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
BATTERY	EE-5-004	N145-ND		Battery Ind Alkaline 9 Volt	Digi-key
BATTERY	EE-5-005	LR14C		Battery Alkaline 1.5V	
BATTERY	EE-5-006	P147		N Cell Alkaline Battery 1.5V	Digi-key
BATTERY	EE-5-007	PX28A		Battery Alkaline 6V	
BATTERY	EE-5-008	MN21/23		Battery Alkaline 12V	
BATTERY	EE-5-009	LR44		Battery Alkaline Button 1.5V	
BATTERY	EE-5-010	CR17345		Lithium Battery 3V	
BATTERY	EE-5-015	CR2032		3V Lithium Button Cell	
BATTERY	EE-5-016	P117-ND		Battery 3V 23mm Lith Coin Type	Digi-key
BATTERY	EE-5-017	D384/392		Battery 1.5V Button	
BATTERY	EE-5-018	SR44W		Button Cell Watch Battery	
BATTERY	EE-5-019	BR2325		Battery 3V 165mAh Lithium Coin	
BATTERY	EE-5-020	BR1225		Battery 3V 12.5mm Lithium Coin	
BATTERY	EE-5-023	1209		6V Super Heavy Duty Lantern Battery	
BATTERY-HOLDER	EE-5-021			20mm Coin Battery Holder	
BATTERY-HOLDER	EE-5-024			Battery Holder 4-pack AAA	
BATTERY-HOLDER	EE-5-028	105794		Battery Holder, Clip 9VDC	Jameco
BATTERY-HOLDER	EE-5-029			Battery Holder 4-pack AA	
BATTERY-HOLDER	EE-5-030			Battery Holder 2-pack AA	
BATTERY-HOLDER	EE-5-031			Battery Holder AA	
BATTERY-HOLDER	EE-5-032			Battery Holder 2-pack C	
BATTERY-HOLDER	EE-5-033	839-2023		Battery Holder D	Allied Electronics
BATTERY-HOLDER	EE-5-034	839-2009		Battery Holder 2-pack D	Allied Electronics
BATTERY-HOLDER	EE-5-035			Battery Holder 6-pack D	
BATTERY-HOLDER	EE-5-036			Multiple Cell Battery Holder	
BATTERY-HOLDER	EE-5-037	71K-ND		Battery Holder 9V Aluminum	Digi-key
BATTERY-HOLDER	EE-6-001	12BH311A-GR		1 AA Battery Holder	Mouser
BATTERY-HOLDER	EE-6-002	2801AA2D		2 AA Battery Holder, Double Sided	Electronics Express
BATTERY-HOLDER	EE-6-003	12BH324		2 AA Battery Holder, In line	Mouser
BATTERY-HOLDER	EE-6-004			2 AA Battery Holder, Side by side	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
BATTERY-HOLDER	EE-6-005			3 AA Battery Holder, Side by side	
BATTERY-HOLDER	EE-6-006	BC4AAL		4 AA Battery Holder SLDR LUGS	Digi-key
BATTERY-HOLDER	EE-6-007	BH4AA-PC		4 AA Battery Holder PC Mount	Digi-key
BATTERY-HOLDER	EE-6-008			8 AA Battery Holder	
BATTERY-HOLDER	EE-6-009	2468K-ND		2 AAA Battery Holder PC Mount	Digi-key
BATTERY-HOLDER	EE-6-010	BH24AAAW		4 AAA Battery Holder Wire LDS	Digi-key
BATTERY-HOLDER	EE-6-011	2482K-ND		4 AAA Battery Holder, Side by side, 6" Lead	Digi-key
BATTERY-HOLDER	EE-6-012	1025K-ND		Dual Cell Holder, 24mm	Digi-key
BATTERY-HOLDER	EE-6-013	1026K-ND		Dual Cell Holder, 20mm	Digi-key
BATTERY-HOLDER	EE-6-014	2801C2P		2 C Battery Holder	Electronix Express
BATTERY-HOLDER	EE-6-015	2801C4P		4 C Battery Holder	Electronix Express
BATTERY-HOLDER	EE-6-016	12BH261A		6 C Battery Holder	Mouser
BATTERY-HOLDER	EE-6-017			2 D Battery Holder	
BATTERY-HOLDER	EE-6-018			4 D Battery Holder	
BATTERY-HOLDER	EE-6-019	280191P		1 9V Battery Holder	Electronix Express
BATTERY-HOLDER	EE-6-020			1 MN21/23 Battery Holder	
BATTERY-HOLDER	EE-6-021	2801BSNAP		9V Battery Snap w/Female Header	Electronix Express
BATTERY-HOLDER	EE-6-022	2801BSI		9V Battery Snap	Electronix Express
BATTERY-HOLDER	EE-6-023	534-72		7" 9V Battery Strap	Mouser
BATTERY-HOLDER	EE-6-024	BS6I-HD-ND		Snaps 9V 6" Leads I-Style HD	Digi-key
BATTERY-HOLDER	EE-6-025			Replacement DC Power Cord, 6' with 3.5mm Plug	
BATTERY-RECHAR	EE-5-011	728-1058-ND		Battery Lithium 3.1V Rechargeable	Digi-key
BATTERY-RECHAR	EE-5-012	TY-AA-1800-CT		Battery NiMH AA 1.2V 1800mAh Rechargeable	Jameco
BATTERY-RECHAR	EE-5-013	LR03		Battery Alkaline AAA 1.5V Rechargeable	
BATTERY-RECHAR	EE-5-014	AA1800CYL3-L		Battery 4-Pack NiMh 4.8V 800mAh Rechargeable	Jameco
BATTERY-RECHAR	EE-5-022	244574		Battery 1.2V SC-1500 NICAD 1500mAh Rechargeable	Jameco
BATTERY-RECHAR	EE-5-025			7.2V Rechargeable Battery Pack	
BATTERY-RECHAR	EE-5-026			4.8V Rechargeable Battery Pack	
BATTERY-RECHAR	EE-5-027			9.6V Rechargeable Battery Pack	
BRIDGE RECTIFIER	C-2-046	3N249		Rec Bridge, 400 V, 1.5 A	Newark

CATEGORY	Location	Part_Number	Substitute	Description	Vender
BRIDGE RECTIFIER	C-2-046A	DF01M		Rec Bridge, 100 V 1A	Digi-Key
BRIDGE RECTIFIER	C-2-061	KBP204G		Rec Bridge, GPP KBP, 400 V, 2A	Digi-Key
BRIDGE RECTIFIER	C-2-068	26MB60A		Rec Bridge, 600 V, 25 A	Digi-Key
BRIDGE RECTIFIER	C-3-100	PB62		Rectifier, Bridge, 6 A, 200 V	Digi-Key
BRIDGE RECTIFIER	C-3-102	W04M		Rectifier, Bridge, 1.5A, 400 V	Digi-Key
BRIDGE RECTIFIER	C-3-102A	DB105-BPMS-ND	DB105	Rectifier Bridge 1A 600V DB-1	Digi-Key
BRIDGE RECTIFIER	C-3-103	2KBP04M		Rectifier, Bridge, 2 A, 400 V	Digi-Key
BRIDGE RECTIFIER	C-3-104	KBL04		Rectifier, Bridge, 4 A, 400 V	Digi-Key
BRIDGE RECTIFIER	C-3-105	KBP08		Rectifier, Bridge, 1.5 A, 800 V	Digi-Key
BRIDGE RECTIFIER	C-3-106	1N3649		Si Power Rectifier, 6 A, 800 V	
BRIDGE RECTIFIER	C-3-107	KBPC110		Rectifier, Bridge, 3 A, 1K V	Mouser
BRIDGE RECTIFIER	C-3-108	KBL10		Rectifier, Bridge, 4 A, 1K V	Digi-Key
BRIDGE RECTIFIER	C-3-109	MDA3502	GBPC3502	Rectifier, Bridge, 35 A, 200 V	Digi-Key
BRIDGE RECTIFIER	C-3-112	MB352		Rectifier, Bridge, 35 A, 200 V	Digi-Key
BRIDGE RECTIFIER	C-3-113	MB254		Rectifier, Bridge, 25 A, 400V	Digi-Key
BRIDGE RECTIFIER	C-3-114	35MB20A	36MB20A	Rectifier, Bridge, 35 A, 200 V	Digi-Key
BUFFER	A-2-117	CD4050BE		IC BUFFER/CONVERTER HEX 16 PIN DIP	
BUFFER	A-3-068	54C902		Hex Non-Inverting TTL Buffer	
BUFFER	A-3-068A	54C903		Hex Inverting CMOS Buffer	
BUFFER	A-3-068B	74C904		Hex Non-Inverting CMOS Buffer	
BUFFER	A-3-120	CD74HC4049E		High-Speed CMOS Logic Hex Buffers, Inverting and Non-Inverting	
Buffer/Driver	A-3-085A	74LS241		IC BUFF/DVR TRI-ST DUAL 20DI	
BUZZER	T-3-004	102-1124-ND	CEM-1205C	BUZZER MAGNETIC 5V 12MM RADIAL Internal Oscillator	Digi-Key
BUZZER	T-3-005	KX-1205		BUZZER MAGNETIC 5V 12MM RADIAL External Oscillator	Digi-Key
BUZZER	T-3-006	340-000001-0000	HYCOM	Buzzer HY-15 Pitch 7.6mm HYCOM	HY-Com
BUZZER	T-3-007	PB-1621P	Mallory	Buzzer Mallory 7.6mm	
CAPAC. HV	F-3-001A			CAP 0.33uF 200VDC	
CAPAC. HV	F-3-001B	493-3645-ND		CAP 0.1UF 400V MET PLYPRO RAD	Digi-Key
CAPAC. HV	F-3-002			CAP 0.22UF 400V	
CAPAC. HV	F-3-003	P4400A-ND		Cap 10PF 500V CER DISC NPO	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CAPAC. HV	F-3-004	P4404A-ND		Cap 22PF 500V CER DISC NPO	Digi-Key
CAPAC. HV	F-3-005	P4412A-ND		Cap 100PF 500V CER DISC NPO	Digi-Key
CAPAC. HV	F-3-006	P4415A-ND		Cap 180PF 500V CER DISC NPO	Digi-Key
CAPAC. HV	F-3-007	P4416A-ND		Cap 220PF 500V CER DISC NPO	Digi-Key
CAPAC. HV	F-3-008	BC2257	BC2257-ND	CAP 0.003UF 630V POLYPROPYLENE 2%	Digi-Key
CAPAC. HV	F-3-008A	P3506-ND		CAP 0.0056UF 630V POLYPROPYLENE	Digi-Key
CAPAC. HV	F-3-009	P3509-ND		CAP 0.01UF 630V POLYPROPYLENE	Digi-Key
CAPAC. HV	F-3-010	P3511-ND		CAP 0.015UF 630V POLYPROPYLENE	Digi-Key
CAPAC. HV	F-3-011	P3515-ND		CAP 0.033UF 630V POLYPROPYLENE	Digi-Key
CAPAC. HV	F-3-012	P3517-ND		CAP 0.047UF 630V POLYPROPYLENE	Digi-Key
CAPAC. HV	F-3-013			CAP 0.1 UF 630V	
CAPAC. HV	F-3-014	P14255-ND		CAP 0.01UF 800V METAL POLYPRO 3%	Digi-Key
CAPAC. HV	F-3-015			CAP 0.005UF 1.2KV	
CAPAC. HV	F-3-016			CAP 0.01UF 1.2KV	
CAPAC. HV	F-3-017			CAP 0.033UF 1.2KV	
CAPAC. HV	F-3-018			CAP 0.047UF 1.2KV	
CAPACITOR	B-4-038			SMALL VALUE TANTALUM CAPS	
CAPACITORS	F-1-001			0.5 pf	
CAPACITORS	F-1-002			1.0 pf	
CAPACITORS	F-1-003			1.5 pf	
CAPACITORS	F-1-004			1.8 pf	
CAPACITORS	F-1-005			2.0 pf	
CAPACITORS	F-1-006			2.2 pf	
CAPACITORS	F-1-007			2.7 pf	
CAPACITORS	F-1-008			3.0 pf	
CAPACITORS	F-1-009			3.3 pf	
CAPACITORS	F-1-010			3.9 pf	
CAPACITORS	F-1-011			4.3 pf	
CAPACITORS	F-1-012			4.7 pf	
CAPACITORS	F-1-013			5.0 pf	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CAPACITORS	F-1-014			5.6 pf	
CAPACITORS	F-1-015			6.2 pf	
CAPACITORS	F-1-016			6.8 pf	
CAPACITORS	F-1-017			7.5 pf	
CAPACITORS	F-1-018			8.2 pf	
CAPACITORS	F-1-019			9.1 pf	
CAPACITORS	F-1-020			10.0 pf	
CAPACITORS	F-1-021			11.0 pf	
CAPACITORS	F-1-022			12.0 pf	
CAPACITORS	F-1-023			15.0 pf	
CAPACITORS	F-1-024			18.0 pf	
CAPACITORS	F-1-025			20.0 pf	
CAPACITORS	F-1-026			22.0 pf	
CAPACITORS	F-1-027			25.0 pf	
CAPACITORS	F-1-028			27.0 pf	
CAPACITORS	F-1-029			30.0 pf	
CAPACITORS	F-1-030			33.0 pf	
CAPACITORS	F-1-031			36.0 pf	
CAPACITORS	F-1-032			39.0 pf	
CAPACITORS	F-1-033			43.0 pf	
CAPACITORS	F-1-034			47.0 pf	
CAPACITORS	F-1-035			50.0 pf	
CAPACITORS	F-1-036			51.0 pf	
CAPACITORS	F-1-037			56.0 pf	
CAPACITORS	F-1-038			68.0 pf	
CAPACITORS	F-1-039			75.0 pf	
CAPACITORS	F-1-040			82.0 pf	
CAPACITORS	F-1-041			90.0 pf	
CAPACITORS	F-1-042			91.0 pf	
CAPACITORS	F-1-043			100.0 pf	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CAPACITORS	F-1-044			120.0 pf	
CAPACITORS	F-1-045			130.0 pf	
CAPACITORS	F-1-046			150.0 pf	
CAPACITORS	F-1-047			180.0 pf	
CAPACITORS	F-1-048			200.0 pf	
CAPACITORS	F-1-049			220.0 pf	
CAPACITORS	F-1-050			240.0 pf	
CAPACITORS	F-1-051			250.0 pf	
CAPACITORS	F-1-052			270.0 pf	
CAPACITORS	F-1-053			300.0 pf	
CAPACITORS	F-1-054			330.0 pf	
CAPACITORS	F-1-055			350.0 pf	
CAPACITORS	F-1-056			360.0 pf	
CAPACITORS	F-1-057			390.0 pf	
CAPACITORS	F-1-058			430.0 pf	
CAPACITORS	F-1-059			470.0 pf	
CAPACITORS	F-1-060			500.0 pf	
CAPACITORS	F-1-061			560.0 pf	
CAPACITORS	F-1-062			620.0 pf	
CAPACITORS	F-1-063			628.0 pf	
CAPACITORS	F-1-064			650.0 pf	
CAPACITORS	F-1-065			680.0 pf	
CAPACITORS	F-1-066			750.0 pf	
CAPACITORS	F-1-067			820.0 pf	
CAPACITORS	F-1-068			910.0 pf	
CAPACITORS	F-1-069			942.0 pf	
CAPACITORS	F-1-070				
CAPACITORS	F-1-071				
CAPACITORS	F-1-072				
CAPACITORS	F-1-073				

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CAPACITORS	F-1-074				
CAPACITORS	F-1-075				
CAPACITORS	F-1-076				
CAPACITORS	F-1-077				
CAPACITORS	F-1-078				
CAPACITORS	F-1-079				
CAPACITORS	F-1-080				
CAPACITORS	F-1-081				
CAPACITORS	F-1-082				
CAPACITORS	F-1-083				
CAPACITORS	F-1-084				
CAPACITORS	F-1-085				
CAPACITORS	F-1-086				
CAPACITORS	F-1-087				
CAPACITORS	F-1-088				
CAPACITORS	F-1-089				
CAPACITORS	F-1-090				
CAPACITORS	F-1-091				
CAPACITORS	F-1-092				
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CAPACITORS	F-1-097				
CAPACITORS	F-1-098				
CAPACITORS	F-1-099				
CAPACITORS	F-1-100				
CAPACITORS	F-1-101				
CAPACITORS	F-1-102				
CAPACITORS	F-1-103				

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CAPACITORS	F-1-104				
CAPACITORS	F-1-105				
CAPACITORS	F-1-106				
CAPACITORS	F-1-107				
CAPACITORS	F-1-108				
CAPACITORS	F-1-109				
CAPACITORS	F-1-110				
CAPACITORS	F-1-111				
CAPACITORS	F-1-112				
CAPACITORS	F-1-113				
CAPACITORS	F-1-114				
CAPACITORS	F-1-115				
CAPACITORS	F-1-116				
CAPACITORS	F-1-117				
CAPACITORS	F-1-118				
CAPACITORS	F-1-119				
CAPACITORS	F-1-120				
CLOCK	A-3-099C	D8284A		Clock Generator and Driver for 8066, 8088 Processors	
CLOCK	B-1-021	DP8572AB		Time Clock Full Function Clock/Calender	
CLOCK	B-3-061	MC146818P		REAL-TIME CLOCK PLUS RAM	
CMOS	A-3-096B	MX7224		CMOS 8-Bit DAC with Output Amplifier	
CMOS	A-3-103A	IDT6116		CMOS Static RAM 16K (2K x 8-Bit)	
CMOS-4000	A-2-041	4000		IC-CMOS Dual 3-Input NOR Gate Plus Inverter	ECG - Moyer
CMOS-4000	A-2-042	4001		IC-CMOS Quad 2-Input NOR Gate	ECG - Moyer
CMOS-4000	A-2-043	4002		IC-CMOS Dual 4-Input NOR Gate	ECG - Moyer
CMOS-4000	A-2-044	4003		? IC Logarithmic Amplifier	
CMOS-4000	A-2-045	4006		CMOS 18-Stage Static Shift Register	
CMOS-4000	A-2-046	4007		CMOS Dual Complementary Pair Plus Inverter	
CMOS-4000	A-2-047	4008		4 Bit Full Adder	
CMOS-4000	A-2-048	4009		CMOS Hex Inverting Buffer/Converter	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CMOS-4000	A-2-049	4010		CMOS Hex Non-Inverting Buffer/Converter	
CMOS-4000	A-2-050	4011		CMOS Quad 2-Input NAND Gate	
CMOS-4000	A-2-051	4012		CMOS Dual 4-Input NAND Gate	
CMOS-4000	A-2-052	4013		CMOS Dual D-Type Flip Flop	
CMOS-4000	A-2-053	4014		CMOS 8-Stage Static Shift Register	
CMOS-4000	A-2-054	4015		CMOS Dual 4-Stage Static Shift Register	
CMOS-4000	A-2-055	4016		CMOS Quad Bilateral Switch	
CMOS-4000	A-2-056	4017	CD4017BE	CMOS Decade Counter with 10 Decoded Outputs	
CMOS-4000	A-2-057	4018		CMOS Presettable Divide-By-N Counter	
CMOS-4000	A-2-058	4019		CMOS Quad AND/OR Select Gate	
CMOS-4000	A-2-059	4020		CMOS 14-Stage Ripple-Carry Binary Counter/Divider	
CMOS-4000	A-2-060	4021		CMOS 8-Stage Static Shift Register	
CMOS-4000	A-2-061	4022		CMOS Octal Counter with 8 Decoded Outputs	
CMOS-4000	A-2-062	4023		CMOS Triple 3-Input NAND Gate	
CMOS-4000	A-2-063	4024		CMOS 7-Stage Ripple-Carry Binary Counter/Divider	
CMOS-4000	A-2-064	4025		CMOS Triple 3-Input NOR Gate	
CMOS-4000	A-2-065	4026		CMOS Decade Counter/Divider w/Decoded 7-Segment Display Oput & Display	
CMOS-4000	A-2-066	4027		CMOS Dual J-K Master-Slave Flip-Flop	
CMOS-4000	A-2-067	4028		CMOS BCD-to-Decimal or Binary-to-Octal Decoders/Drivers	
CMOS-4000	A-2-068	4029		CMOS Presettable Up/Down Counter	
CMOS-4000	A-2-069	4030		CMOS Quad Exclusive-OR Gate	
CMOS-4000	A-2-070	4034		CMOS 8-Stage Static Bidirectional Parallel/Serial I/O Bus Register	
CMOS-4000	A-2-071	4035		CMOS 4-Stage Parallel In/Parallel Out Shift Register	
CMOS-4000	A-2-072	4038		CMOS Triple Serial Neg Logic Adder 16-Ld DIP	ECG - Moyer
CMOS-4000	A-2-073	4040		CMOS 12-Stage Ripple-Carry Binary Counter/Divider	
CMOS-4000	A-2-074	4042		CMOS Quad Clocked 'D' Latch	
CMOS-4000	A-2-075	4043		CMOS Quad NOR R/S Latch w/3-State Oputs	
CMOS-4000	A-2-076	4044		CMOS Quad NAND R/S Latch w/3-State Oputs	
CMOS-4000	A-2-077	4046		CMOS Micropower Phase-Locked Loop	
CMOS-4000	A-2-078	4047		CMOS Low-Power Monostable/Astable Multivibrator	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CMOS-4000	A-2-079	4048		CMOS Multifunction Expandable 8-Input Gate	
CMOS-4000	A-2-080	4049		CMOS Hex Inverting Buffer/Converter	
CMOS-4000	A-2-081	4051	CD74HC4051E	CMOS Single 8-Channel Analog Multiplexer/Demultiplexer w/Logic-Level C	
CMOS-4000	A-2-082	4052		CMOS Differential 4-Channel Analog Multiplexer/Demultiplexer w/Logic L	
CMOS-4000	A-2-083	4053		CMOS Triple 2-Channel Analog Multiplexer/Demultiplexer w/Logic Level C	
CMOS-4000	A-2-084	4056		CMOS BCD To 7-Segment LCD Decoder/Driver w/Strobed-Latch Function	
CMOS-4000	A-2-085	4060		CMOS 14-Stage Ripple-Carry Binary Counter/Divider & Oscillator	
CMOS-4000	A-2-086	4066		CMOS Quad Bilateral Switch	
CMOS-4000	A-2-087	4067		CMOS Single 16-Channel Analog Multiplexer/Demultiplexer	
CMOS-4000	A-2-088	4068		CMOS 8-Input NAND/AND Gate	
CMOS-4000	A-2-089	4069		CMOS Hex Inverter	
CMOS-4000	A-2-090	4070		CMOS Quad Exclusive-OR Gate	
CMOS-4000	A-2-091	4071		CMOS Quad 2-Input OR Gate	
CMOS-4000	A-2-092	4072		CMOS Dual 4-Input OR Gate	
CMOS-4000	A-2-093	4073		CMOS Triple 3-Input AND Gate	
CMOS-4000	A-2-094	4076		CMOS 4-Bit D-Type Registers	
CMOS-4000	A-2-095	4077		CMOS Quad Exclusive-NOR Gate	
CMOS-4000	A-2-096	4078		CMOS 8-Input NOR/OR Gate	
CMOS-4000	A-2-097	4081		CMOS Quad 2-Input AND Gate	
CMOS-4000	A-2-098	4082		CMOS Dual 4-Input AND Gate	
CMOS-4000	A-2-099	4089		CMOS Binary Rate Multiplier	
CMOS-4000	A-2-100	4093	CD4093BCN	CMOS Quad 2-Input NAND Schmitt Triggers	
CMOS-4000	A-2-100	4093		CMOS Quad 2-Input NAND Schmitt Triggers	
CMOS-4000	A-2-101	4098		CMOS Dual Monostable Multivibrator	
CMOS-4000	A-2-102	4502		CMOS Strobed Hex Inverter/Buffer with 3-State Outputs	
CMOS-4000	A-2-103	4503		CMOS Hex Non-Inverting Buffer with 3-State Outputs	
COMPANDER	B-1-114	NE570N		Compander	
COMPANDER	B-1-115	NE571N	SA571N	Compander Wireless	
COMPARATOR	A-3-040	74F85		4-bit Magnitude Comparator	
COMPARATOR	A-3-064A	74C85		4-Bit Magnitude Comparator	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
COMPARATOR	B-1-046	LM2903N		Comparator Dual Low Power Low Offset	
COMPARATOR	B-1-051	LM311N/P	C311C	Comparator Voltage	
COMPARATOR	B-1-053	LM319N		Comparator Dual High Speed	
COMPARATOR	B-1-055	LM3302N		Comparator Quad Differential	
COMPARATOR	B-1-059	LM339N		Comparator Quad Low Power Low Offset Voltage	
COMPARATOR	B-1-083	LM711	UA711CN	Comparator Dual Difference	
COMPARATOR	B-2-025	LM393N		Comparator Dual Low Power	
COMPARATOR	B-2-063	LM361N		Comparator High Speed Differential 14 DIP	
CONNECTOR	J-1-061A	CP-002D-ND		CONN POWER BLUG 1.3MM	Digi-Key
CONNECTOR	J-1-061B	CP3-1002-ND		CONN DC POWER PLUG 1.0MM	Digi-Key
CONNECTOR	J-1-062				
CONNECTOR	J-1-063	CP-004A-ND		2.1MM FEMALE PLUG 5.5MM OUTSIDE	Digi-Key
CONNECTOR	J-1-064				
CONNECTOR	J-1-065				
CONNECTOR	J-1-066	DCLID		2.5MM LARG I.D POWER PLUG	All Electronics
CONNECTOR	J-1-067	DCSID		2.1 MM (0.8") CO-AX POWER PLUG	All Electronics
CONNECTOR	J-1-068				
CONNECTOR	J-1-069A	CP-002A-ND		CONN POWER JACK 2.1MM	Digi-Key
CONNECTOR	J-1-069B	DCJ-1		2.1MM DC POWER JACK	All Electronics
CONNECTOR	J-1-070	CP-102A-ND		CONN JACK POWER 2.1MM PCB	Digi-Key
CONNECTOR	J-1-071	DCJ-6		2.5MM DC POWER JACK	All Electronics
CONNECTOR	J-1-072	CP-002BHPJCT-ND		CONN POWER JACK 2.5X5 .5MM HI CUR	Digi-Key
CONNECTOR	J-1-073	CP-102B-ND		CONN POWER JACK 2.5MM PCB CIRC	Digi-Key
CONNECTOR	J-1-074	CP-026A-ND		CON PWR JCK 2.0X6.0MM PNL MNT	Digi-Key
CONNECTOR	J-1-075	CP-5-ND		CONN 2.1MM JACK W/HARD PNL MNT	Digi-Key
CONNECTOR	J-1-076	30S1-14300		CONN 6.35MM FEMALE TO MINI-PHONE MALE STEREO AUDIO	
CONNECTOR	J-1-077	CP-3501-ND		3.5MM MALE POWER PLUG	Digi-Key
CONNECTOR	J-1-078				
CONNECTOR	J-1-079	CP-3502-ND		3.5MM MALE STEREO PLUG	Digi-Key
CONNECTOR	J-1-080	161-2505		2.5MM PCB PHONE JACK DGS	Mouser

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CONNECTOR	J-1-081				
CONNECTOR	J-1-082				
CONNECTOR	J-1-083	CP-3553NG-ND		CONN AUDIO JACK 3.5MM STEREO	Digi-Key
CONNECTOR	J-1-084A	CP-3536NG-ND		CONN AUDIO JACK 3.5MM MONO	Digi-Key
CONNECTOR	J-1-084B	CP-3502N-ND		CONN AUDIO JACK 3.5MM MONO	Digi-Key
CONNECTOR	J-1-085A	CP-3544N		CONN AUDIO JACK 3.5MM STEREO	Digi-Key
CONNECTOR	J-1-085B	CP-3544-ND		CONN AUDIO JACK 3.5MM STEREO	Digi-Key
CONNECTOR	J-1-086				
CONNECTOR	J-1-087	CP-3505-ND		3.5MM RT ANGLE STEREO JACK PCB	Digi-Key
CONNECTOR	J-1-088				
CONNECTOR	J-1-089	SC1045-ND		PHONE JACK SUB MINI LUG W/HDW	Digi-Key
CONNECTOR	J-1-090	CP-3504-ND		3.5MM RT ANGLE PCB MT JACK	Digi-Key
CONNECTOR	J-1-091	ME161-3502		3.5MM STEREO DGS PHONE JACK	Mouser
CONNECTOR	J-1-092	CP1-3535-ND		CONN JACK STEREO R/A 5PIN 3.5MM	Digi-Key
CONNECTOR	J-1-093	DCA-7		DC POWER PLUG CONVERT	All Electronics
CONNECTOR	J-1-094				
CONNECTOR	J-1-095				
CONNECTOR	J-1-096				
CONNECTOR	J-1-097				
CONNECTOR	J-1-098				
CONNECTOR	J-1-099	CP-1250-ND		CONN DIN 5 PIN FEMALE PANEL MNT	Digi-Key
CONNECTOR	J-1-100				
CONNECTOR	J-1-101	0702574		RCA JACK PANEL MNT IN 0.296" HOLE	Electronix Express
CONNECTOR	J-1-102	CP-2380-ND		CONN DIN 8 PIN FEMALE PCB	Digi-Key
CONNECTOR	J-1-103	CP-1280-ND		CONN DIN 8 PIN FEMALE PANEL MNT	Digi-Key
CONNECTOR	J-1-104	CP-2950-ND		CONN MINI DIN RECPT 5P PNL MNT	Digi-Key
CONNECTOR	J-1-105A	WM17118-ND		CONN BLUG USB 4POS RT ANG SMD	Digi-Key
CONNECTOR	J-1-105B	UE27AC54100-ND		CONN RCPT USB TYPE A R/A GOLD	Digi-Key
CONNECTOR	J-1-106	CP-2080-ND		CONN MINI-DIN 8 PIN MALE	Digi-Key
CONNECTOR	J-1-107	CP-2580-ND		CONN 8POS MINI-DIN MET PANEL MNT	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CONNECTOR	J-1-108				
CONNECTOR	J-1-109				
CONNECTOR	J-1-110				
CONNECTOR	J-1-111				
CONNECTOR	J-1-112				
CONNECTOR	J-1-113				
CONNECTOR	J-1-114				
CONNECTOR	J-1-115				
CONNECTOR	J-1-116				
CONNECTOR	J-1-117				
CONNECTOR	J-1-118				
CONNECTOR	J-1-119				
CONNECTOR	J-1-120				
CONTROLLER	A-3-053A	74F765		DRAM Dual-Ported Controllers	
CONVERTER	B-1-029B	TLC5615CP	296-3006-5	IC DAC 10BIT SRL-IN V-OUT 8-DIP	Digi-Key
CONVERTER	B-1-056	LM331N		Converter Precision Voltage to Frequency	
CONVERTER	B-1-086	LM2907N		ConverterFrequency to Voltage	
CONVERTER	B-1-086A	VWRAS2-D48-D15-S		CONVERTER DC/AC +/-15V OUT 2W	Digi-Key
CONVERTER	B-2-018	ICL7660	MAV1044	CMOS Voltage Converters 8-DIP	
CONVERTER	B-2-022	LM231N		Converter Precision Voltage - Frequency 8DIP	Digi-Key
CONVERTER	B-2-024	LM2917N	LM2917N-8	Converter Frequency - Voltage	
CONVERTER	B-2-038	MAX660		CMOS Monolithic Voltage Converter	
CONVERTER	B-2-042	MAX751		+5V-Output, Step-Up, Current-Mode PWM DC-DC Converter	
CONVERTER	B-2-043	MAX756		3.3V or 5V Adjustable-Output, Step-Up DC-DC Converters	
CONVERTER	B-2-116	VFC32KP		Converter Voltage to Freq & Freq to Voltage	
CONVERTER	B-3-019	TC9400CPD		IC V-FREQ/FREQ-V CONV 14DIP	Digi-Key
CONVERTER	B-3-043	ICL7106CPL		IC; 3 1/2 Digit, LCD Display, A/D Converters, PDIP40	Digi-Key
Converters-Modul	P-2-093	VI-AIM		Universal AC Input Front End Module AC-DC	Digi-Key
COUNTER	A-3-011	74ALS161		Synchronous Four-Bit Counter	
COUNTER	A-3-043	74F193		Up/Down Binary Counter with Separate Up/Down Clocks	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
COUNTER	A-3-066B	74C193		Synchronous 4-Bit Up/Down Decade Counter	
COUNTER	A-3-069A	74C925/6		4-Digit Counters with Multiplexed 7-Segment Output Drivers	
COUNTER	A-3-070C	74ACT161		Synchronous Presettable Binary Counter	
COUNTER	A-3-083A	74LS162		SYNCHRONOUS 4-BIT COUNTERS	
COUNTER	A-3-084	74S169		IC SYNC 4-BIT UP/DN CNTR 16-DIP	
COUNTER	A-3-101	ICM72171IPI		IC Counter Adj LED 4 Digit 28-DIP	Digi-Key
COUNTER	A-3-112A	CD4510		CMOS PRESETTABLE UP/DOWN COUNTERS	
COUNTER	A-3-114A	MC14516B		Binary Up/Down Counter	
COUNTER	A-3-114B	SCL4518BE		CMOS DUAL UP COUNTERS	
COUNTER	A-3-115A	CD4520BCN		(N) DUAL BINARY UP COUNTER	
COUNTER	A-3-115B	CD4522BE		CMOS Programmable BCD Divide-By-N Counter	
COUNTER	B-4-011	74LS93	A-2-23	4 Bit Binary Counter	
COUNTER	B-4-026	MM54C93		4-Bit Binary Counter	
CRYSTAL	D-1-001	SE3205		32.768 KHz, Cyl Type, Crystal	Digi-Key
CRYSTAL	D-1-002	32EA8		184.100 or 506 KHz, Crystal	
CRYSTAL	D-1-003	32EA8		184.100 or 506 KHz, Crystal	
CRYSTAL	D-1-004	X919		200.0KHz Resonator Ceramic	Digi-Key
CRYSTAL	D-1-005	BH6A		360.0KHz Resonator	
CRYSTAL	D-1-006	P9940		400.0KHz Resonator	
CRYSTAL	D-1-007	P9941		420.0KHz Resonator	
CRYSTAL	D-1-008	MP-010		1.000 MHz	
CRYSTAL	D-1-009			1.048576 ??? MHz	
CRYSTAL	D-1-010	CR18A/U		1.8432 MHz	
CRYSTAL	D-1-011	4-79		2500 ??? KHz	
CRYSTAL	D-1-012	MP-032		3.2768 ??? MHz	
CRYSTAL	D-1-012A	FOXLF0368-20	631-1080-ND	3.6864MHZ Crystal	Digi-Key
CRYSTAL	D-1-013	9-74		3579.545 KHz	
CRYSTAL	D-1-014	9-77		4.000 MHz	
CRYSTAL	D-1-015	69-46		9.735 MHz	
CRYSTAL	D-1-016	HC1-600		6.000 MHz	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CRYSTAL	D-1-017	ECS-1000AC		6.144 MHz	
CRYSTAL	D-1-018	ECS H		7.37 MHz	
CRYSTAL	D-1-019	X0A4		8.000 MHz Clock	
CRYSTAL	D-1-020	MP080A		8.000 MHz Cystal	
CRYSTAL	D-1-021	X422		10 MHz	Digi-Key
CRYSTAL	D-1-022			11.000 MHz / 11.155 MHz / 11.059 MHz	
CRYSTAL	D-1-023	MP120	ECS-V	12 MHz	
CRYSTAL	D-1-023A	CSA309-14.31818M	300-8434-ND	Crystal 14.31818MHz 30ppm 18pF	Digi-Key
CRYSTAL	D-1-024	33EM		186.196 KHz	
CRYSTAL	D-1-025	32EY		191.490 / 191.900 KHz	
CRYSTAL	D-1-026	MP160		18 MHz Crystal	Mouser
CRYSTAL	D-1-027	NCT050C		16 MHz, Crystal clock oscillator 5V, true TTL	Arrow Elect
CRYSTAL	D-1-028	CTX289CT		80.000 MHZ Oscilator, 5.0V SMD	Digi-Key
CRYSTAL	D-1-029			24.57 MHz	
CRYSTAL	D-1-030			24.576 MHz	
CRYSTAL	D-1-031			24.5C95 ???	
CRYSTAL	D-1-032		ECS-300CX-200	20 MHz Clock	Digi-Key
CRYSTAL	D-1-033			???	
CRYSTAL	D-1-034	HC49US40	SER3451	40 MHz 18pF HC49S THROUGH HOLE	Mouser
CRYSTAL	D-1-035			4.134304 MHz	
CRYSTAL	D-1-036			49.890 MHz	
CRYSTAL	D-1-036A			32.768Khz	Digi-key
CRYSTAL	D-1-037	X328	SE3438	20 MHz Crystal	
CRYSTAL	D-1-037A	X493-ND	ECS-200-20-4	Crystal 20Mhz 20PF 49US	Digi-Key
CRYSTAL	D-1-038	SG-531P	324268	20 MHz Clock / Crystal	Jameco
CRYSTAL	D-1-039	SE3411		6.757 MHz Crystal, 18 pf	
CRYSTAL	D-1-040	GA-51492		30.0 KHz	
CRYSTAL	D-1-041			8.7815 ???	
CRYSTAL	D-1-042			49.56500 MHz	
CRYSTAL	D-1-043			4.300 ?	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
CRYSTAL	D-1-043A	28.63636 MHz	300-8455-ND	Crystal 28.63636MHz 30ppm 18pF	Digi-Key
CRYSTAL	D-1-044			151.625 ???	
CRYSTAL	D-1-045			35.700 MHz	
CRYSTAL	D-1-046	D143C9		???	
CRYSTAL	D-1-047			3.656 MHz	
CRYSTAL	D-1-048			194.153 KHz	
CRYSTAL	D-1-049			24.0 KHz	
CRYSTAL	D-1-050			157.950 ???	
CRYSTAL	D-1-051			460.0 KHz	
CRYSTAL	D-1-052			152.690 ???	
CRYSTAL	D-1-053			141.3 Hz	
CRYSTAL	D-1-054			19.2 KHz	
CRYSTAL	D-1-055	526-7103-00		308 KHz Crystal Filter	
CRYSTAL	D-1-056	526-7103-00		308 KHz Crystal Filter	
CRYSTAL	D-1-057	526-7103-00		308 KHz Crystal Filter	
CRYSTAL	D-1-058	526-7103-00		308 KHz Crystal Filter	
CRYSTAL	D-1-059	526-7103-00		308 KHz Crystal Filter	
CURRENT MODE IC	A-3-028	UCC3813N-3	296-11501-5-ND	IC LOW-Pwr Current- Mode PWM 8-DIP	Digi-Key
D/A Converter	A-3-108	DAC0800LCN		8-Bit D/A Converter	Digi-Key
D/A Converter	A-3-108A	MC1408L8		8-BIT MULTIPLYING DIGITAL-TO-ANALOG CNOVERTER	Digi-Key
D/A Converter	A-3-108B	DAC0808LCN		8-Bit D/A Converter	Digi-Key
D/A CONVERTER	B-4-022	MC1408		8-bit multiplying D/A converter	
DAC	A-2-107	7524		IC DAC 8 Bit Multiplying	
DAC	A-3-001	MCP4921	MCP4921-E/P-ND	IC DAC 12 BIT SNGL W/SPI 8DIP	DIGI-KEY
DAC	A-3-001A	TLC5615CP	TLC5615CP	IC 10 BIT 12.5uS DAC S/O 8-DIP	Digi-Key
DAC	A-3-096	DAC0830	DAC0830LCN	8-bit Microprocessor Compatible, Double-Buffered D/A Converter	NATIONAL
DAC	A-3-096A	DAC0832		8-bit Microprocessor Compatible, Double-Buffered D/A Converter	
DAC	A-3-097	DAC7624		12-Bit Quad Voltage Output Digital-to-Analog Converter	
Data Acquisition	A-3-109	ADC0804LCN	ADC0804LCN-ND	C ADC 8BIT MPU COMPAT 20-DIP	Digi-Key
DATA SELECTOR	A-3-116A	CD4529BCN		Dual 4-Channel or Single 8-Channel Analog Data Selector	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
DECODER	A-3-010B	74ALS138		1-of-8 decoder/demultiplexer	
DECODER	A-3-024	74AS137		3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS WITH ADDRESS LATCHES	
DECODER	A-3-024A	74AS138		3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS	
DECODER	A-3-041	74F139		Dual 1-of-4 Decoder/Demultiplexer	
DECODER	A-3-064	74C42		BCD-to-Decimal Decoder	
DECODER	A-3-065A	74C154		4-Line to 16-Line Decoder/Demultiplexer	
DECODER	A-3-070B	74ACT138		1-of-8 Decoder/Demultiplexer	
DECODER	A-3-082	74LS138		3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS	
DECODER	A-3-082A	74LS139		DUAL 2-LINE TO 4-LINE DECODERS/DEMULTIPLEXERS	
DECODER	A-3-114	HEF4515BDB		1-of-16 Decoder/demultiplexer With Input Latches	
DECODER	B-1-041	LM1872N		Decoder/Receiver Radio Control	
DECODER	B-1-080	LM567N	567CP	Loop Phase Locked Tone Decoder	
DECODER	B-2-012	XR2211CP		Demodulator/Tone Decoder FSK	
DECODER	B-2-098	HT12D		Decoder	
DECODER	B-4-012	74LS139	A-1-031	DUAL 1-OF-4 DECODER/DEMULTIPLEXER	
DELAY LINE	B-2-084	TDA1022		Delay Line for Analog Signal 0-512ms	
DEMODULATOR	B-1-036	LM1800N		Demodulator Phase Lock Loop FM Stereo	
DETECTOR	B-1-037	LM1801N		Detector Smoke	
DETECTOR	B-1-039	LM1830N		Detector Fluid	
DETECTOR	B-2-019	ICL7665		Microprocessor Voltage Monitor w/Dual Over/Undervoltage Dect	
DETECTOR	B-2-045	MAX8211	ICL8211	Microprocessor Volt Monitor w/Program V Detection	
DIAC	B-3-073	HEP311	NTE6407	Bilateral Trigger Diodes (DIACS)	
DIFF-AMP	B-3-013	AD626	1781081--JAMEc	IC DIFF AMP TRUE SNGL SUPP	Digi-Key
DIGITAL	B-3-042	DS1666		Digital Pot, 128 Steps, 10 K ohm, 5.5 V	Newark
DIGITAL	B-3-047	R6551AP		Asynchronous Communications Interface Adapter	Rockwell
DIGITAL	B-3-050	CPU32BUG		Monitor, and Back Ground Debug	Motorola
DIGITAL	B-3-054	AN82527		IC,COMMUNICATIONS CONTROLLER,CMOS,LDCC,44PIN	
DIODE	C-2-040	MBR2535CTLG		Diode, Schottky, 35 V, 12.5 A	Digi-Key
DIODE	C-2-070	6A6DICT		Rec, Si, 600 V, 6 A	Digi-Key
DIODE	C-2-072	1N5337BGOS		Diode, ZENER, 4.7 V, 5 W	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
DIODE	C-2-073	RL203-TP		Diode, Std Rec, 200 V, 2 A	Digi-Key
DIODE	C-2-075	RURP3060		Diode, Ultra Fast, 600 V, 30 A	Digi-Key
DIODE	C-2-075A	RURG3060		DIODE ULTRAFAST 600V 30A TO-247	Mouser
DIODE	C-2-076	MUR415G		Diode, Ultra Fast, 150 V, 4 A	Digi-Key
DIODE	C-2-077	CRNA15-400		Diode, Rec, 400 V, 15 A	Newark
DIODE	C-3-001	251D		Diode, Si Rectifier, GP, 2.5 A, 1K V	Newark
DIODE	C-3-002	1N4937GICT		Diode, 1 A, 600 V	
DIODE	C-3-003	1N2510		UHF/Microwave Mixer Diode, GP, 2.5 A, 1 KV	
DIODE	C-3-004	1N5404		Si Rectifier, GP, 3 A, 400 V	Digi-Key
DIODE	C-3-005	1N5406		Diode Std Rec, 3 A, 600 V	Digi-Key
DIODE	C-3-006	MR754	NTE5814/FR604	Diode Std Rec 6A, 400V	Mouser
DIODE	C-3-007	1N1124		Diode Rec, 200 V,	
DIODE	C-3-008	1N1184		Diode Std Rec, 35 A, 200 V	Mouser
DIODE	C-3-009	1N1186	SR652	Diode Std Rec, 35 A, 200 V	Digi-Key
DIODE	C-3-010	1N1186	SR652	Diode Std Rec, 35 A, 200 V	Digi-Key
DIODE	C-3-011	1N1203		Diode Std Rec, 12 A, 300 V	Mouser
DIODE	C-3-012	1N1204		Diode Std Rec, 12 A, 400 V	Mouser
DIODE	C-3-013	1N1206		Diode Std Rec, 12 A, 600 V	Mouser
DIODE	C-3-014	1N2070	1N4004	Diode Std Rec, 1 A, 400 V	Mouser
DIODE	C-3-015	1N2939		Diode Si N Channel MOS FET High Speed Power Switching	
DIODE	C-3-015A	MUR115RLG	863-MUR115RLG	150V 1A Ultrafast Rectifier	Mouser
DIODE	C-3-016	1N3592	NTE110A	Diodes/Rectifiers D-GE-GEN PURP, 40PRV	Mouser
DIODE	C-3-017	1N3720		Diode, 4.1 ma, 65 mv	
DIODE	C-3-018	1N4001		Diode Std Rec, 1 A, 50 V	Digi-Key
DIODE	C-3-019	1N4002		Diode GP, 1 A, 100 V	Digi-Key
DIODE	C-3-020	1N4003		Diode GP, 1 A, 200 V	Digi-Key
DIODE	C-3-021	1N4004		Diode GP, 1 A, 400 V	Digi-Key
DIODE	C-3-022	1N4007		Diode GP, 1 A, 1000 V	Digi-Key
DIODE	C-3-023	1N4148		Diode Sw, 100 V, 150 ma	Digi-Key
DIODE	C-3-024	1N4448		Diode Sw, 75 V, 150 ma	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
DIODE	C-3-025	1N4454		DIODE HI CONDUCTANCE 50V	Digi-Key
DIODE	C-3-026	1N457		DIODE HI CONDUCTANCE 70V	Digi-Key
DIODE	C-3-090	1N23		Diode, Si Mixer	
DIODE	C-3-093	1N3665		Diode, Si Rec 600 V	
DIODE	C-3-098	1N914		DIODE HI CONDUCTANCE 100V	Digi-Key
DIODE	C-3-099	DB104		Diode Std Rec, 1 A, 400 V	Digi-Key
DIODE	C-3-110	U8242		full wave Bridge Rect 30A	Digi-Key
DIODE	C-3-111	U8242			
DIODE	C-3-118	P6KE20A		Diode, TVS, 20 V, 600 W Uni-Dir	Digi-Key
DIODE	C-3-119	6KE7.5		Diode, TVS, 7.5 V, 600 W, Uni-Dir	Digi-Key
DIODE	C-3-120	ICTE36		Diodes, TVS, 36 V, 1500 W, Unidirectional	Mouser
DIODE ARRAY	B-2-072	FSA2563P		Diode Array Common Cathode 7 SEG	
DIODE ARRAY	B-2-073	FSA2564M		Diode Array Common Anode 7 SEG	
DIODE ARRAY	B-2-074	TID125		Diode Array Core Driver 7 SEG	
DISPLAY	B-3-035	LM3914N-1		DR, BAR GRAPH DISPLAY; DUAL IN LINE; 25 V, 1365 MW	Digi-Key
DISPLAY DRIVER	B-3-035A	LM3914N-1	LM3914N-1-ND	IC DRIVER DOT BAR DISPLAY 18-DIP	Digi-Key
DRIVER	A-2-114	SN75441		Quad Half H Driver/Linear Interface	
DRIVER	A-3-012A	74ALS241		Octal 3-State Bus Driver	
DRIVER	A-3-013	74ALS244		OCTAL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS	
DRIVER	A-3-017	74ALS541		Octal Buffer and Line Driver with 3-STATE Outputs	
DRIVER	A-3-023	74ALS1244		OCTAL BUFFERS AND DRIVERS WITH 3-STATE OUTPUTS	
DRIVER	A-3-036B	SN75472JG		Dual Peripheral Drivers	
DRIVER	A-3-043A	74F240		Octal Buffers/Line Drivers with 3-STATE Outputs	
DRIVER	A-3-045	74F244		Octal Buffers/Line Drivers with 3-STATE Outputs	
DRIVER	A-3-067	74C240		Octal Buffers and Line Drivers with TRI-STATE Outputs	
DRIVER	A-3-072	74ACT240		Octal Buffer/Line Driver with 3-STATE Outputs	
DRIVER	B-1-001	75324	LM75324	Driver Memory Dual	
DRIVER	B-1-003	DS75491N	MC75491P	Driver Quad LED Segment MOS Compatible Inputs	
DRIVER	B-1-004	DS75492N	MC75492P	Driver Hex Digit MOS Compatible Inputs	
DRIVER	B-1-005	7940	MC8113P	Driver Line General Purpose Single Ended	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
DRIVER	B-1-022	DS1488N	MC1488P	Driver Line Quad 4 Drivers	
DRIVER	B-1-024	DS75113N	SN75113N	Driver Line General Purpose Differential	
DRIVER	B-1-025	DS75115N	9615PC	Driver Line General Purpose Differential	
DRIVER	B-1-026	DS8831N		Driver Line Dual Tri-State 2 Driver	
DRIVER	B-1-028	ICM7212AMIPL		Driver Display	
DRIVER	B-1-032	MC1488L/N	L8211	Driver Line Quad	
DRIVER	B-1-090	MAX138CPL		Display Driver	
DRIVER	B-1-095	MAX483CPA		Driver/Receiver Line Tri State Differential	
DRIVER	B-1-108	MC3479P		Driver/Stepper Motor Control	Digi-Key
DRIVER	B-1-109	MC3486P		Driver Line RS 422a/RS423s	
DRIVER	B-2-001	SN75176P		Driver/Receiver Line RS422/485 Tri State Differeni	
DRIVER	B-2-008	ULN2003AN		Driver 7 Chan Input 2.7-k Base Resis TTL/5V CMOS	
DRIVER	B-2-009	XC145707P		Driver/Receiver Line RS232 Single Ended	
DRIVER	B-2-014	75ALS1178N		Driver Dual Differential	
DRIVER	B-2-050	IR2110		Driver Hi & Low Side	
DRIVER	B-2-054	UCN5841A	A5841SLW	BiMOS II 8-Bit Serial-Input, Latched Drivers	
DRIVER	B-2-058	DS14C88N		Driver Line Quad CMOS	
DRIVER	B-2-059	SN75188N	SN74LS27N	Quadruple Line Driver	
DRIVER	B-2-071	L298N		Driver Full Dual 15 Multiwatt	Digi-Key
DRIVER	B-2-080	IR2111	IR2111-ND	Driver Half-Bridge 8-DIP	Digi-Key
DRIVER	B-2-082	DS75451N/M		Driver Dual Peripheral Series	
DRIVER	B-2-106	TC4424		Driver Line 3A Dual High Speed MOSFET	
DRIVER	B-2-112	74CT2524		1 to 4 Minimum Skew (300 ps) Clock Driver	
DRIVER	B-3-022	L6202		IC DRIVER FULL BRIDGE 18PWRDIP	Digi-Key
DRIVER	B-3-037	ICL7129ACPL-2		IC ADC 4 1/2DGT W/LCD DVR 40-DIP	Digi-Key
DRIVER	B-3-041	LM3914N		IC DRIVER DOT BAR DISPLAY 18-DIP	Digi-Key
DRIVER	B-3-060	TC4469		1.2A QUAD MOSFET DRVR, LOGIC I/P	Newark
DRIVER	B-4-006	75188		QUADRUPLE LINE DRIVER	
DRIVER - IC	B-1-010	CA3046N		Transistor Array 3 NPN + 1 Differential Pair	
DRIVER- RS232	B-1-091	MAX232ACPE		Driver/Receiver Line Tri-State RS232	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
DRIVER- RS232	B-1-103	MC145406P		Driver/Receiver Line TTL RS232 Single Ended	
DRIVER- RS232	B-1-103A	ST232CA		5V-2 Driver/Receiver Line TTL RS232 Single Ended	
DRIVER- RS232	B-1-104	MC145407/8		Driver/Receiver Line RS232 Single Ended	
DRIVER-IC	B-2-085	IR2113	IR2113PBF	IC MOSFET DVR HI/LO SIDE 14-DIP	Digi-Key
DRIVER-MOTOR	C-2-051	L294		Motor Driver, Sw, 12-46 V, 4 A, 11mw	Digi-Key
DRIVER-MOTOR	C-2-051A	TLE5205-2	TLE5205-2IN-ND	IC Motor driver PAR TO220-7	Digi-Key
ECE376-TOYS	GLOWER A	WRL-09132		Xbee Explorer Regulated	SparkFun
ECE376-TOYS	GLOWER A	GPS-09133		Venus GPS with SMA Connector	SparkFun
ECE376-TOYS	GLOWER A	WRL-08664		Xbee 1mW Chip Antenna	SparkFun
ECE376-TOYS	GLOWER A	GPS-08254		Antenna GPS 3V Magnetic Mount MCX	SparkFun
ECE376-TOYS	SENSOR 1	BOB-08891		GAS SENSOR BREAKOUT BOARD	Sparkfun
ECE376-TOYS	SENSOR 10			PRESSURE TRANSDUCER SENSOR	
ECE376-TOYS	SENSOR 11	1252	MMA7341L	Accelerometer 3- Axis +-3/11g with Voltage Regulator	Pololu
ECE376-TOYS	SENSOR 11	555-28027		PIR SENSOR	Digi-Key
ECE376-TOYS	SENSOR 12	32PX28015		ULTRASONIC SENSOR #28015	Parallax
ECE376-TOYS	SENSOR 13A	1-617-464-4500		FLEXI FORCE PRESSURE SENSORS	
ECE376-TOYS	SENSOR 13B			FLEXIBLE RESISTORS 0-90DEG	
ECE376-TOYS	SENSOR 2	SEN-08880		ALCOHOL GAS SENSOR MQ-3	Sparkfun
ECE376-TOYS	SENSOR 3	SEN-09404		METHANE CNG GAS SENSOR - MQ-4	Sparkfun
ECE376-TOYS	SENSOR 4	SEN-10289		TILT SENSOR	Sparkfun
ECE376-TOYS	SENSOR 5	SEN-09403		CARBON MONOXIDE SENSOR - MQ-7	Sparkfun
ECE376-TOYS	SENSOR 6	255-2649-ND	AMN34111	MOTION SENSOR 10MM	Digi-Key
ECE376-TOYS	SENSOR 7			PIR - MODULE B	
ECE376-TOYS	SENSOR 8A	26MA40A5R		ULTRASONIC RCVR	Electronix Express
ECE376-TOYS	SENSOR 8B	26MA40A5S		ULTRASONIC SENSOR	Electronix Express
ECE376-TOYS	SENSOR 9	SEN-10313		TILT SENSOR - 4-WAY	Sparkfun
EEPROM	B-3-025	24LC16B		IC SERIAL EEPROM 16K 2.5V 8-DIP	Digi-Key
EEPROM	B-3-026	NM93C56EN		EEPROMs - Serial (256x8)/(128x16) 2K	Mouser
EEPROM	B-3-036	24LC04B/P		SERIAL EEPROM 4 K, 512 X 8, 2.5 V	Digi-Key
EEPROM	B-3-036A	24LC00-I/P	24LC00I/P-ND	IC EEPROM 128BIT 400KHZ 8DIP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
EEPROM	B-3-045	D2716-2		IC,EPROM,2KX8,MOS,DIP,24PIN,CERAMIC	Intel
EEPROM	B-3-049	AM27C512-200DC		IC,EPROM,64KX8,CMOS,DIP,28PIN,CERAMIC	
EEPROM	B-3-105	27C512N-120		EPROM, 64K x 8 250ns 12.5v (CMOS)	Elect Express
ENCODER	A-3-069	74C920/1/2/3		16-Key Encoder	
ENCODER	A-3-100	KR2376		KEYBOARD ENCODER READ ONLY MEMORY	
ENCODER	B-1-040	LM1871N		Encoder/Transmitter Radio Control	
ENCODER	B-1-101	MC14410		Encoder Tone Telephone	
ENCODER	B-1-102	MC14419		Encoder 2 of 8 Keyboard to Binary	
ENCODER	B-1-111	MX165A		Encoder/Decoder CTCSS	
ENCODER	B-1-112	MX315P		Encoder Cintinuuous Tone Control Sequench System	
ENCODER	B-2-099	HT12E		Encoder	
ENCODER	B-3-017	HCS200		IC CODE HOPP ENCODER 7FUNC 8-DIP	Digi-Key
ENCODER/DECODE	B-2-064	MM53200N		Encoder/Decoder	
ENCODER/DECODE	B-3-027	MC14458P		Encoder and Decoder Pairs	
EPROM	B-4-024	MC68705P3S		8-Bit EPROM Microcomputer Unit	
EQUIPMENT/FUNC	RM 203 M	153673	SIGN OUT REQUIRED	WAVETEK Sweep Function Generator FG3B	Wavetek
EQUIPMENT/FUNC	RM 203 V	153674	SIGN OUT REQUIRED	WAVETEK Sweep Function Generator FG3B	Wavetek
EQUIPMENT/MUL	RM 203 V	153692	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	...0560	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	...0030	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	...0559	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	...0029	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	153691	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/MUL	RM 203 V	111443	SIGN OUT REQUIRED	SIMPSON Digital Multimeter Model 464A	Simpson
EQUIPMENT/MUL	RM 203 V	127522	SIGN OUT REQUIRED	KEITHLEY Digital Multimeter Model 169	Keithley
EQUIPMENT/MUL	RM 203 V	130075	SIGN OUT REQUIRED	KEITHLEY Digital Multimeter Model 169	Keithley
EQUIPMENT/MUL	RM 203 V	...0665	SIGN OUT REQUIRED	BK PRECISION Digital Multimeter Model 2835	Bk Precision
EQUIPMENT/OSCIL	RM 203 AA	176191	SIGN OUT REQUIRED	INSTEK 150MHz Digital Oscilloscope GDS-820C	Instek
EQUIPMENT/OSCIL	RM 203 AA	176189	SIGN OUT REQUIRED	INSTEK 150MHz Digital Oscilloscope GDS-820C	Instek
EQUIPMENT/OSCIL	RM 203 AA	175194	SIGN OUT REQUIRED	INSTEK 150MHz Digital Oscilloscope GDS-820C	Instek

CATEGORY	Location	Part_Number	Substitute	Description	Vender
EQUIPMENT/OSCIL	RM 203 AA	176192	SIGN OUT REQUIRED	INSTEK 150MHz Digital Oscilloscope GDS-820C	Instek
EQUIPMENT/OSCIL	RM 203 AA	176190	SIGN OUT REQUIRED	INSTEK 150MHz Digital Oscilloscope GDS-820C	Instek
EQUIPMENT/OSCIL	RM 203 I	179660	SIGN OUT REQUIRED	RIGOL 100MHz 2 Channel Digital Oscilloscope DS1102CA	Rigol
EQUIPMENT/OSCIL	RM 203 I	176168	SIGN OUT REQUIRED	TEKTRONIX 100MHz Four Channel Digital Oscilloscope TDS 2014	Tektronix
EQUIPMENT/OSCIL	RM 203 I	176169	SIGN OUT REQUIRED	TEKTRONIX 100MHz Four Channel Digital Oscilloscope TDS 2014	Tektronix
EQUIPMENT/OSCIL	RM 203 I	C018700	SIGN OUT REQUIRED	TEKTRONIX 60MHz Digital Oscilloscope TDS 1002	Tektronix
EQUIPMENT/OSCIL	RM 203 J	176167	SIGN OUT REQUIRED	TEKTRONIX 100MHz Four Channel Digital Oscilloscope TDS 2014	Tektronix
EQUIPMENT/OSCIL	RM 203 J	181757	SIGN OUT REQUIRED	RIGOL 100MHz 2 Channel Digital Oscilloscope DS1102CA	Rigol
EQUIPMENT/OSCIL	RM 203 J	179652	SIGN OUT REQUIRED	RIGOL 100MHz 2 Channel Digital Oscilloscope DS1102CA	Rigol
EQUIPMENT/POW	RM 105C-01				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
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EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
EQUIPMENT/POW	RM 105C-02				
FET	B-3-074	MTM15N40		Pw Field Effect Trans	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
FET	B-3-076	HEP801/802	NTE312	Field Effect Trans, N Chan Si	Digi-Key
FET	B-3-082	MPF102		JFET Amp N-CH RF SS TO-92	
FILTER	B-2-032	MAX291	MAXIM291	Filter 8th Deg Low Pass - Same as MAX295	
FILTER	B-2-033	MAX293		Filter 8th Deg Low Pass - Same as MAX294/MAX297	
FILTER	B-2-039	MAX7400		8th-order lowpass, elliptic switched-capacitor filter +5V	
FILTER	B-2-040	MAX7408		5th-order lowpass elliptic switched-capacitor filter +5V	
FILTER	B-2-092	MF10BN		Filter Dual Universal Switched Capacitor	
FILTER	B-2-093	MAX275AEP		Filter Analog 4th Order	
FUSES	D-3-001A	FUSES		AGC 1/32, 250 V, Fast Blo	
FUSES	D-3-001B	FUSES		AGC 1/32, 250 V, Slow Blo	
FUSES	D-3-001C	FUSES		AGC 1/16,Slo Blo, Solder Pigtail	
FUSES	D-3-001D	FUSES		AGC 1/16, 250V, Slo Blo	
FUSES	D-3-002A	FUSES		AGC 1/10, 250V	
FUSES	D-3-002B	FUSES		AGC 1/10, 250V Slo Blo	
FUSES	D-3-002C	FUSES		AGC 1/8, 250V FB	
FUSES	D-3-002D	FUSES		AGC 1/8, 250V Slo Blo	
FUSES	D-3-003A			AGC 2/10, 250V	
FUSES	D-3-003B			AGC 2/10, 250V Slo Blo	
FUSES	D-3-004A			AGC 3/10, 250V	
FUSES	D-3-004B			AGC 3/10, 250V Slo Blo	
FUSES	D-3-005A			AGC 1/4, 250V FB	
FUSES	D-3-005B			AGC 1/4, 250V SB	
FUSES	D-3-006A			AGC 3/8, 250V FB	
FUSES	D-3-006B			AGC 3/8, 250V SB	
FUSES	D-3-007A			AGC 1/2, 250V FB	
FUSES	D-3-007B			AGC 1/2, 250V SB	
FUSES	D-3-007C			AGC 1/2, 250V SB Solder Pigtail	
FUSES	D-3-008A			AGC 6/10, 250V, FB	
FUSES	D-3-008B			AGC 6/10, 250V, SB	
FUSES	D-3-009A			AGC 7/10, 250V, FB	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
FUSES	D-3-009B			N Type 7/10, 250V, SB	
FUSES	D-3-009C			GMA 7/10, 250V, FB	
FUSES	D-3-010A			AGC 1, 250V, FB	
FUSES	D-3-010B			AGC 1, 250V, SB	
FUSES	D-3-011A			AGC 1.5, 250V, FB	
FUSES	D-3-011B			MDL 1.5, 250V, SB	
FUSES	D-3-012A			AGC 1.6, 250V, FB	
FUSES	D-3-012B	WK4711-ND		GMA 1.6, 250V, FB	
FUSES	D-3-013A			AGC 2.0, 250V, FB	
FUSES	D-3-013B			MDL 2.0, 250V, SB	
FUSES	D-3-013C			AGX2.0, 250V, FB	
FUSES	D-3-014A			AGC 2.0, 250V, FB	
FUSES	D-3-014B			MDL 2.0, 250V, FB	
FUSES	D-3-015A			AGX 2.5, 250V, FB	
FUSES	D-3-015B			AGC 2.5,250V, FB	
FUSES	D-3-015C			MDL 2.5,250V,SB	
FUSES	D-3-015D			MDL 2.8,250V,SB	
FUSES	D-3-016A			AGC 3.0, 250V,FB	
FUSES	D-3-016B			AGA 3.0, 250V, FB	
FUSES	D-3-016BB			GMC 3.0, 250V, FB	
FUSES	D-3-016C			GJV 3.0, 250V, FB	
FUSES	D-3-017A	283-2684-ND		GMA 4.0, 250V, FB	
FUSES	D-3-017B			SFE 4.0, 250V, FB	
FUSES	D-3-017C			MDL 4.0, 250V, SB	
FUSES	D-3-018A			AGC 5.0, 250V, FB	
FUSES	D-3-018B			GMA 5.0, 250V, FB	
FUSES	D-3-018BB			SFE 5.0, 250V, FB	
FUSES	D-3-018C			MDL or 3AG 5.0, 250V, SB	
FUSES	D-3-019A			AGC 6.0, 250V, FB	
FUSES	D-3-019B			SFE 6.0, 250V, FB	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
FUSES	D-3-019BB			GMA 6.0, 250V, FB	
FUSES	D-3-019C			MDA 6.0, 250V, FB Ceramic	
FUSES	D-3-020A			MDA or 3AGC,MDL, 7.0, 250V, FB	
FUSES	D-3-020B			AGC 7.0,250V, FB, Solder Pigtail	
FUSES	D-3-021A			SFE 7.5, 250V, FB	
FUSES	D-3-021B			AGC 7.5, 250V, FB	
FUSES	D-3-022A			AGC 10.0, 250V, FB	
FUSES	D-3-022B	Future use			
FUSES	D-3-023A		AGC 15	ABC 15.0, 250V, FB, Ceramic	
FUSES	D-3-024A		AGC 20	ABC 20.0, 250V, FB, Ceramic	
FUSES	D-3-024B			3AG,20.0, 32V,FB	
FUSES	D-3-025A	FUSETRONS		FNM 2.0, 250V, Dual Element	
FUSES	D-3-025B	FUSETRONS		FNM 6.25, 250V, Dual Element	
FUSES	D-3-026A	FUSETRONS		FNM 8.0, 250V, Dual Element	
FUSES	D-3-027	Buss Ren 10		REN 10.0, 250V,Renewable Fuse	
FUSES	D-3-028A	FUSETRONS		FNM 12.0, 250V,FB	
FUSES	D-3-028B	FUSETRONS		FNM 15.0, 250V,FB	
FUSES	D-3-028BB	FUSETRONS		KLK 15.0,250V,FB	
FUSES	D-3-029A	FUSETRONS		FRN 20.0, 250V,FB	
FUSES	D-3-029B	FUSETRONS		FNW, 25.0, 250V,FB	
FUSES	D-3-030A	Misc.....		GMW3.0, 250 V, Solder type	
FUSES	D-3-030B	Misc.....		GJV 1.0, 250V, Solder Pigtail	
FUSES	D-3-031A	BK Function Gena.	BK4040A	GMA 0.1A,250V ,FB	
FUSES	D-3-031B	BK Function Gena.	BK4040A	AGC 0.2A,250V, FB	
FUSES	D-3-032	FLUKE FG3B		GMD 0.5A, 250V, FB	
FUSES	D-3-033A			MDL 1/32, 250V, SB	
FUSES	D-3-033B	Honda Generator		8AG 4A, 250V	
FUSES	D-3-034A			MDL 0.35A, 250V, SB	
FUSES	D-3-034B			MDL 0.5A, 250V, SB	
FUSES	D-3-035A			BBS-2, 250V, FB	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
FUSES	D-3-036A	Fluke 77		BBS-3, 250V, FB	
FUSES	D-3-037A	BK 2120 Scope	GMA 0.315ma	GMA 0.315A, 250V, FB	
GENERATOR	B-1-017	CD22859E		Generator Tone Multifreq Analog Handset	
GENERATOR	B-1-027	ICL8038CCPD		Precision Waveform Generator/Voltage Control Oscil	
GENERATOR	B-1-079	LM566CN	NE566N	Oscillator Voltage Control Function Generator	
H-BRIDGE	B-2-089	SN754410NE	296-9911-5-ND	Quad Half H-Bridge IC HALF-H DRVR QUAD 16-DIP	Digi-Key
H-BRIDGE	B-2-089A	A3959SB	A3959SB-ND	IC MOTOR DRIVER PAR 24DIP Half Brdige	Digi-Key
H-BRIDGE	B-2-104	LMD18200T		3A, 55V H-Bridge	
H-BRIDGE	B-3-117	NJM#2670D2		IC H-BRIDGE DRIVER DUAL 22-DIP	Digi-Key
H-BRIDGE	C-2-039	LMD18200T		H BRIDGE, 55 V, 3 A	Digi-Key
HEADER	I-1-074	160882			
HEADER	I-1-075				
HEADER	I-1-076				
IC Multiplier	A-3-029	AD633AN	AD633JN	IC Multiplier Analog 8-DIP	Digi-Key
IC POWER SWITCH	C-2-029A	BTS555E3	BTS555E3146INLF-ND	IC SW PWR HISIDE TO-218-5-146	Digi-Key
IC REF	B-2-027A	LT1009CLP	296-9585-5-ND	IC REFERENCE CIRCUIT 2.5V TO-92	Digi-Key
IC REF	B-2-028A	LT1021DCN8-10	LT1021DCN8-10#PBF-ND	IC PREC REF 10V 20PPM/DEGC 8-DIP	Digi-Key
IC SWITCH	B-2-011	TPS2041P		IC .9A POWER DIST SWITCH 8-DIP	TI
IC-REG	B-2-047A	MC33063API	MC33063API-ND	IC REG SW STEP UP/DOWN 1.5A 8DIP	Digi-Key
IC-SWITCH	B-2-103A	BTS410E2IN-ND		IC SWITCH PWR 65V TO-220AB-5	Digi-Key
IF	B-1-016	CA189E		IF System FM	
INDUCTORS	E-1-001	INDUCTORS	INDUCTORS	.22uh	
INDUCTORS	E-1-002	INDUCTORS	INDUCTORS	.33uh	
INDUCTORS	E-1-003	INDUCTORS	INDUCTORS	.47uh	
INDUCTORS	E-1-004	INDUCTORS	INDUCTORS	.68uh	
INDUCTORS	E-1-005	INDUCTORS	INDUCTORS	1uh	
INDUCTORS	E-1-006	INDUCTORS		1.2uh	
INDUCTORS	E-1-007			1.5uh	
INDUCTORS	E-1-008			2.2uh	
INDUCTORS	E-1-009			2.7uh	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
INDUCTORS	E-1-010			3.3uh	
INDUCTORS	E-1-011			4.7uh	
INDUCTORS	E-1-012			5.6uh	
INDUCTORS	E-1-013			6.8uh	
INDUCTORS	E-1-014			10uh	
INDUCTORS	E-1-015			12uh	
INDUCTORS	E-1-016			15uh	
INDUCTORS	E-1-017			18uh	
INDUCTORS	E-1-018	INDUCTORS		22uh	
INDUCTORS	E-1-019	INDUCTORS		27uh	
INDUCTORS	E-1-020			33uh	
INDUCTORS	E-1-021			39uh	
INDUCTORS	E-1-022			47uh	
INDUCTORS	E-1-023			56uh	
INDUCTORS	E-1-024			68uh	
INDUCTORS	E-1-025			82uh	
INDUCTORS	E-1-026			100uh	
INDUCTORS	E-1-027			120uh	
INDUCTORS	E-1-028			150uh	
INDUCTORS	E-1-029			180uh	
INDUCTORS	E-1-030			220uh	
INDUCTORS	E-1-031			270uh	
INDUCTORS	E-1-032			330uh	
INDUCTORS	E-1-033			390uh	
INDUCTORS	E-1-034			470uh	
INDUCTORS	E-1-035			560uh	
INDUCTORS	E-1-036			680uh	
INDUCTORS	E-1-037			820uh	
INDUCTORS	E-1-038			1000mh	
INDUCTORS	E-1-039			1.2mh	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
INDUCTORS	E-1-040			1.5mh	
INDUCTORS	E-1-041			1.8mh	
INDUCTORS	E-1-042			2.2mh	
INDUCTORS	E-1-043			2.7mh	
INDUCTORS	E-1-044			3.3mh	
INDUCTORS	E-1-045			3.9mh	
INDUCTORS	E-1-046			4.7mh	
INDUCTORS	E-1-047			5mh	
INDUCTORS	E-1-048			5.6mh	
INDUCTORS	E-1-049			6.8mh	
INDUCTORS	E-1-050			8.2mh	
INDUCTORS	E-1-051			10mh	
INDUCTORS	E-1-052			12mh	
INDUCTORS	E-1-053			15mh	
INDUCTORS	E-1-054			22mh	
INDUCTORS	E-1-055			27mh	
INDUCTORS	E-1-056			33mh	
INDUCTORS	E-1-057			39mh	
INDUCTORS	E-1-058			47mh	
INDUCTORS	E-1-059			56mh	
INDUCTORS	E-1-060			68mh	
INDUCTORS	E-1-061			100mh	
INDUCTORS	E-1-062			120mh	
INDUCTORS	E-1-063			150mh	
INDUCTORS	E-1-064			220mh	
INDUCTORS	E-1-065			470mh	
INDUCTORS	E-1-066			1h	
KEYPADS	P-1-001	KEYPADSM		Small Keypad \$2.00 each	Futurlec
LATCH	A-3-016	74ALS373		Octal transparent latch (3-State)	
LATCH	A-3-017A	74ALS563		Octal D-Type Transparent Latch with 3-STATE Output	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LATCH	A-3-020	74ALS666		8-BIT D-TYPE TRANSPARENT READ-BACK LATCHES WITH 3-STATE OUTPUTS	
LATCH	A-3-022	74ALS873		DUAL 4-BIT D-TYPE LATCHES WITH 3-STATE OUTPUTS	
LATCH	A-3-026	74AS870		DUAL 4-BIT D-TYPE LATCHES WITH 3-STATE OUTPUTS	
LATCH	A-3-048A	74F269		Latch	
LATCH	A-3-049A	74F373		Octal Transparent Latch with 3-STATE Outputs	
LATCH	A-3-054	74F841		10-Bit Transparent Latch	
LATCH	A-3-054A	74F843		9-Bit Transparent Latch	
LATCH	A-3-055	74F845		8-Bit Transparent Latch	
LATCH	A-3-067B	74C373		3-STATE Octal D-Type Latch	
LATCH	A-3-071B	74ACT373		Octal Transparent Latch with 3-STATE Outputs	
LATCH	A-3-087	74LS373		IC OCT D-TYPE LATCH 20-DIP	
LATCH	A-3-112	SCL4508BE		CMOS DUAL 4-BIT LATCH	
LED	D-2-001	365-1182-ND		Lens: Clear, Color: Red, 5mm	Sparkfun
LED	D-2-002	RL5-Y5615		Lens: Clear, Color: Yellow, 5600mcd, 5mm, 15 Degrees	Superbrighled
LED	D-2-003	160-1088-ND		Lens: Yellow, Color: Yellow, 5mm, T1-3/4 Yellow Diff No Flange	Digi-key
LED	D-2-004	HLMP3850AFS-N		5mm, Led SS Hi Eff Ylw Pale Tint 5mm	Digi-key
LED	D-2-005	160-1496		Lens: Clear, Color: Amber yellow, Led Amber-Yell 5mm Alingap 595nm	Digi-key
LED	D-2-006	MR3350QT		Lens: Orange, Color: Orance, 5mm, 5V Yellow Diff Led With Res	Digi-key
LED	D-2-007	RL5-O5015		Lens: Clear, Color: Orange, 5000mcd, 5mm, 15 Degrees	Superbrightled
LED	D-2-008			Lens: Bluer, Color: Blue, 5mm	Ebay
LED	D-2-009	P457-ND		Lens: Clear, Color: Orange-Red, 5mm, Led Orange (Water Clear Lense)	Digi-key
LED	D-2-010			Lens: Clear, Color: White, 5mm	Ebay
LED	D-2-011			Lens: Clear, Color: Red, 5mm	
LED	D-2-012	HLMP3750AFS-N	COM-09590	LED Ss Eff Red Pale Tint, 5mm	Digi-key
LED	D-2-013			Lens: Red, Color: Red, 5mm	
LED	D-2-014	P407		Lens: Clear, Color: Bright Red, 5mm, Led Red Clear High Brightness	Digi-key
LED	D-2-015			Lens: Red, Color: Red, 5mm	Ebay
LED	D-2-016	RL5-R5015		Lens: Clear, Color: Red, 631nm, 5000mcd, 5mm, 15 Degrees	Superbrightled
LED	D-2-017	CMD3750		Color: Red, 5mm, Led Ultrabright Red T1-3/4 Clr	Digi-key
LED	D-2-018			Lens: Green, Color: Green, 5mm	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LED	D-2-019	67-1119-ND		Lens: Clear, Color, Green, Led 5mm Narrow View Angl Grn Clr	Digi-key
LED	D-2-020	RL5-G8020		Lens: Clear, Color: Green, 5mm, 525nm, 8000mcd, 20 Degrees	Superbrightled
LED	D-2-021	404-1093		Lens: Clear, Color: Bright Green, Led Green Clear 5mm High Bright	Digi-key
LED	D-2-022	HLMP3950AFS-ND		Lens: Green Tint, Color: Green, Led Ss Hi Eff Grn Pale Tint 5mm	Digi-key
LED	D-2-023	RL5-A9018		Lens: Clear, Color: Aqua, 5mm, 505nm, 9000mcd, 18 Degrees	Superbrightled
LED	D-2-024	134332		Lens: Clear, Color: Blue, 5mm	Jameco
LED	D-2-025	RL5-V1015		Lens: Clear, Color: Violet, 5mm, 420nm, 1000mcd, 15 Degrees	Superbrightled
LED	D-2-026	516-1707-ND		Lens: Clear, Color: White, Led 5mm Wht Flat Top W/O Stndoff	Digi-key
LED	D-2-027			Lens: Clear, Color: Light Purple, 5mm	
LED	D-2-027			Lens: Clear, Color: Light Purple, 5mm	
LED	D-2-028	512-QED123		5mm, 80mW/st 1.7V Ir Led Fairch	Mouser
LED	D-2-029	QED234-ND		Lens: Clear, Led IR Emitting Algaas 940nm 5mm	
LED	D-2-029A	LED55BQT-ND		IR Emitting diode 940nm	Digi-Key
LED	D-2-029B	CQX15	CQX15-ND	IR Emitting diode 940nm 100mA TO-46	Digi-Key
LED	D-2-030	RL5-UV1215		Lens: Clear, 5mm, 400nm, UV, 12mW, 15 Degrees	
LED	D-2-031	L10021-ND		Led Red 1/4" Hole 5B Panel Mount	
LED	D-2-032	365-1026-ND		Led Fiber Optic Gaalas	
LED	D-2-033			Lens: Yellow, Color: Yellow, 3mm	
LED	D-2-034			Lens: Clear, Color: Yellow, 3mm	
LED	D-2-035			Lens: Dark Red, Color: Red, 3mm	
LED	D-2-036			Lens: Red, Color: Red, 3mm	
LED	D-2-037	156953		Lens: Clear, Color: Bright Red, 3mm	
LED	D-2-038			Lens: Clear, Color: Green, 3mm	
LED	D-2-039			Lens: Green, Color: Dim Green, 3mm	
LED	D-2-040			Lens: Green, Color: Green, 3mm	
LED	D-2-041	404-1111-ND		Lens: Clear, Color, Bright Blue, Led Blue Clear 3mm High Bright	
LED	D-2-042	QEC113-ND		Led Ir Emitting Gaas 940nm 3mm	
LED	D-2-043			Lens: Orange, Color: Dim Orange, 3mm	
LED	D-2-044	475-1103-ND	OBSOLETE	Ir Emitting Diode 950nm, 5mm	OBSOLETE
LED	D-2-045	LN175PA-ND		Infrared Light Emitting Diode	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LED	D-2-045A	LN64PA-ND	LN64	Infrared Light Emitting Diode	Digi-Key
LED	D-2-046	RL5-B5515		Lens: Clear, Color: Blue, 470nm, 5500mcd, 15 Degrees	
LED	D-2-047	RL8-W110-360		Lens: Yellow, Color: White, Jumbo, 11000mcd, 360 Degrees	
LED	D-2-048	119634		Lens: Opq. Red, Color: Red, Jumbo	
LED	D-2-049	11685		382 14V 80mA	
LED	D-2-050			Assorted LEDS	
LED	D-2-051A	67-1200-ND		2mm Sup Red Trans Cerm Stem	
LED	D-2-051B	67-1329-ND		LED 3mm Grn/Yel Wht Diff Bicolor	
LED	D-2-051C	67-1328-ND		LED 3mm Red/Yel Wht Diff Bicolor	
LED	D-2-051D	67-1198-ND		LED 2mm Green Transp Cerm Stem	
LED	D-2-052	350-1758-ND		Tricolor LED	
LED	D-2-053	COM-09983		Lens: Clear, Color Blue, 5mm, SUPER BRIGHT	SparkFun
LED	D-2-054	JLSF5-W12-14-RGB8		RGB LED 8000, mcD tri-color	JELED-Ebay
LED	D-2-055	JL10-W12-W140000		10mm WHITE LED 140,000mcD SUPER BRIGHT	JELED-Ebay
LED	D-2-056	JL10-W12-W140000		10mm WHITE LED 140,000mcD SUPER BRIGHT	JELED-Ebay
LED	D-2-057	JL10-W12-W125000		10mm WHITE LED 125,000mcD SUPER BRIGHT	JELED-Ebay
LED	D-2-058	JLH8-W140-B70000		8mm BLUE LED 70,000 mcD High Power	JELED-Ebay
LED	D-2-059	08L3630GD		10mm Green 70,000mcD GREEN LED Large	Elex. Xpress
LED	D-2-060	STARLED_1W_WH		1W White High Power LED \$2.50ea	Futurlec
LED	D-2-061			5 LED Array	
LED	D-2-062			5 LED Array	
LED	D-2-063			5 LED Array	
LED	D-2-064			10 LED Array	
LED	D-2-065			Square LEDS in Mounting Bracket, Red/Green/Yellow	
LED	D-2-066	L30002		Lens For T1-3/4 LED Clear Round	Digi-Key
LED	D-2-067	L30022-ND		Lens For T1 Clear Round	
LED	D-2-068			LED Mount, 5mm, White	
LED	D-2-069	67-1165-ND	LU10047	LED 5mm Yel Pnl Mnt Reflector	
LED	D-2-070A	67-1157-ND		LED 5mm Yel Flat Top Panel Mnt	
LED	D-2-070B	67-1156-ND		LED 5mm Grn Flat Top Panel Mnt	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LED	D-2-070C	67-1155-ND		LED 5mm Red FlatTop Panel Mnt	
LED	D-2-071	L30032-ND		Lens For T1 3/4 LED Clear Dome	
LED	D-2-072			LED Holder, T1 3/4 5mm Panel Mnt	Radioshack
LED	D-2-073			LED Mount, 3mm	
LED	D-2-074			LED Mount	
LED	D-2-075			LED Mount, 5mm	
LED	D-2-076			LED Mount	
LED	D-2-077A	169973			Jameco
LED	D-2-077B	169957			Jameco
LED	D-2-077C	FB134-ND		LED IR Fiber Opt 100Mbps 870nm	
LED	D-2-077D	FB122-ND		Photodarlington Fiber Optic	
LED	D-2-078			LED Mount, Green	
LED	D-2-078A	INF5940	use with D-2-080	Infrared Diode 940nm 5mm Round LED	Futurlec
LED	D-2-079	INF5940TRANS		Infrared Photo Transistor 940nm 3mm Round LED	Futurlec
LED	D-2-080	PNA4602M-ND	INFRECMOD	Photo IC Infrared 38.0Khz/ 38Khz Remote Receiver	Digi-Key/Futurlec
LED	D-2-081	QEE113-ND		LED IR Emitting 940nm Sidelooker	Digi-Key
LED	D-2-081A	365-1045-ND		LED IR Emitting 935nm Plastic Sidelooker	Digi-Key
LED	D-2-081B	86H2546	TSKS5400S	IR Emitter,950NM 3.2MM Side Looking THD	Newark
LED	D-2-081C	LNA2903L	LNA2903L	IR LED 950nM 25 Deg T1-3/4	Digi-Key
LED	D-2-081D				
LED	D-2-082	475-1077-ND	SFH213	Photodiode 850nm 5mm Clear	Digi-Key
LED	D-2-083	PDB-C134F-ND		Photodiode Blue W/DF 1.55mm T1	Digi-Key
LED	D-2-084	PDB-V113		Photodiode Blue 7.95mm Sq Cermic	Digi-Key
LED	D-2-085	512-QSD123		4mA Photo Trans Fairchild	Mouser
LED	D-2-086	516-1266-ND		Photodiode IR 2X2mm Flat Axial	Digi-Key
LED	D-2-086A	BPV10	751-1001-ND	Photodiode Pin High Speed 5MM use with D-2-90A	Digi-Key
LED	D-2-087	PNA4613M00YB-ND		Photo IC Infrared 40.0khz W/Hldr	Digi-Key
LED	D-2-088	365-1013-ND		Sensor Photologic Reflective	Digi-Key
LED	D-2-089	PNA1801LS0NC-ND	OBSOLETE	Npn Phototrans 850nm T1	Digi-Key-Obsolete
LED	D-2-089A	BPW77NB	751-1021-ND	PHOTOTRANSISTOR NPN TO-18 850nm use with D-2-086A	Digi-Key-\$3.45 ea

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LED	D-2-090	PNZ109F-ND		Npn Phototrans 900nm TO-18 Flat	Digi-Key
LED	D-2-091	OR604-ND	EE-SY413	Opto Sensor Reflect 4.4mm	Digi-Key
LED	D-2-092			LED Panel Indicator	
LED	D-2-093			Red LED, Rectangular	
LED	D-2-094	106526		LED, Infrd, Wtr Clr, Emit, T1-3/4, 940nm, 1.2vf@20mA, 8mW@20mA	Jameco
LED	D-2-095	ECG 3200		Solid State Cartridge Indicator W/ Red LED	PhilipsECG
LED	D-2-096	276-137B		IR Detector Module	Radioshack
LED	D-2-097	68063		LED Kit	Electronic Goldmine
LED	D-2-098	TSOP1156	22H1462	IR Receiver, 950NM,	Newark
LED	D-2-099	551-0207F	350-1810-ND	LED 3MM High Eff GREEN	Digi-Key
LED	D-2-100	TEST2600	751-1061-ND	Phototransistor NPN Side View 950nm	Digi-Key
LED	D-2-101				
LED	D-2-101	N/A	N/A	LED 1Watt- 3LED's in a Bar (white)	N/A
LED	D-2-102				
LED	D-2-102	N/A	N/A	LED 1Watt- 3LED's in a Bar (white)	N/A
LED	D-2-103				
LED	D-2-104				
LED	D-2-104	LN77L-ND	LN77L	IR LED 860nm 20 Deg T1-3/4	Digi-Key
LED	D-2-105				
LED	D-2-105			1Watt High power LED with Heatsink/ECE376	N/A
LED	D-2-106				
LED	D-2-107				
LED	D-2-108				
LED-7SEG	D-2-109	FND510		16.65mm x 15.55mm, Single	
LED-7SEG	D-2-110	P351-ND	LN516RK	LED 1 Digit Red, Common Cathode	Digi-Key
LED-7SEG	D-2-111	LDS-A816RI	67-1483-ND	LED 7-Seg .80 Sngl S-Red Dir, Common Anode	Digi-Key
LED-7SEG	D-2-112	CSS-815R		27.70mm x 19.90mm, Single	
LED-7SEG	D-2-113	3403CC		27.70mm x 19.90mm, Single	
LED-7SEG	D-2-114	LTS3401VP		27.70mm x 19.80mm, Single	
LED-7SEG	D-2-115	SEC8110NK		27.70mm x 19.90mm, Single	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LED-7SEG	D-2-116	ECG3080		28.10mm x 21.30mm, Single	
LED-7SEG	D-2-117	HDSP-521G	516-1208-5-ND	LED 7-SEG 14.2mm 2Dig Grn Rhd, Common Anode	Digi-Key
LED-7SEG	D-2-118	DL728		23.85mm x 19.00mm, Dual	
LED-7SEG	D-2-119	HDSP-523G	516-1209-5-ND	LED 7-Seg 14.2mm 2Dig Grn Rhd, Common Cathode	Digi-Key
LED-7SEG	D-2-120			24.90mm x 18.85mm, Dual	
LOGIC	A-2-104	MC14506BCL	ECG4506B	IC-CMOS Dual Expandable AND/OR/Invert Gate	
LOGIC	A-2-105	MC14008		LOG CMOS ARTH OP 4BIT Binary Adder	
LOGIC	A-2-106	74F652		IC TXRX Register Oct Bus 24 DIP	
LOGIC	A-2-110	SN5420		Dual 4 Input Pos NAND Gate	Obsolete
LOGIC	A-2-113	NTE4531B		IC CMOS 12 Bit Parity Tree	
LOGIC	A-2-119	ZXCT1009FTA		HIGH-SIDE CURRENT MONITOR	
LOGIC	A-3-009	74ALS86		Quad 2-input exclusive-OR gate	
LOGIC	A-3-010	74ALS133		13-Input NAND Gate	
LOGIC	A-3-014A	74ALS273		Octal D-type flip-flop	
LOGIC	A-3-016A	74ALS374		Octal D flip-flop (3-State)	
LOGIC	A-3-020A	74ALS832		HEX 2-INPUT OR DRIVERS	
LOGIC	A-3-022A	74ALS874		DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS	
LOGIC	A-3-025	74AS175		HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR	
LOGIC	A-3-025A	74AC377PC		Octal D-Type Flip-Flop with Clock Enable	
LOGIC	A-3-036	MC845		CLOCKED FLIP-FLOP	
LOGIC	A-3-036A	MC853		DUAL J-K FLIP-FLOP	
LOGIC	A-3-037	74F00		Quad 2-Input NAND Gate	
LOGIC	A-3-037A	74F02		Quad 2-Input NOR Gate	
LOGIC	A-3-038	74F04		Hex Inverter	
LOGIC	A-3-038A	74F08		Quad 2-Input AND Gate	
LOGIC	A-3-039	74F10		Triple 3-Input NAND Gate	
LOGIC	A-3-039A	74F32		Quad 2-Input OR Gate	
LOGIC	A-3-039B	74F74		Dual D-Type Positive Edge-Triggered Flip-Flop	
LOGIC	A-3-040A	74F86		2-Input Exclusive-OR Gate	
LOGIC	A-3-042	74F174		Hex D-Type Flip-Flop with Master Reset	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LOGIC	A-3-042A	74F175		Quad D-Type Flip-Flop	
LOGIC	A-3-049	74F273		Octal D-Type Flip-Flop	
LOGIC	A-3-050	74F374		Octal D-Type Flip-Flop with 3-STATE Outputs	
LOGIC	A-3-052A	74F583		4-Bit BCD Adder	
LOGIC	A-3-061	74C00		Quad 2-Input NAND Gate	
LOGIC	A-3-061A	74C02		Quad 2-Input NOR Gate	
LOGIC	A-3-061B	74C04		Hex Inverter	
LOGIC	A-3-062	74C08		Quad 2-Input AND Gate	
LOGIC	A-3-062A	74C10		Triple 3-Input NAND Gate	
LOGIC	A-3-063A	74C32		Quad 2-Input OR Gate	
LOGIC	A-3-065	74C74		Dual D-Type Flip-Flop	
LOGIC	A-3-066	74C175		Quad D-Type Flip-Flop	
LOGIC	A-3-070	74AC74		Dual D-Type Positive Edge-Triggered Flip-Flop	
LOGIC	A-3-070A	74ACT04		Hex Inverter	
LOGIC	A-3-073	74H04		Hex Inverter	
LOGIC	A-3-073A	74H08		Quad 2-Input AND Gate	
LOGIC	A-3-074	74H11		TRIPLE 3-INPUT AND GATE	
LOGIC	A-3-074A	74H21		Dual 4-Input Positive AND Gate	
LOGIC	A-3-075	74H40		Dual 4-Input NAND Buffer	
LOGIC	A-3-075A	74H76		Dual JK Flip-Flop	
LOGIC	A-3-076	74H108		Dual JK Edge Triggered Flip-Flop	
LOGIC	A-3-076B	74LS00		Quad 2-Input NAND Gate	
LOGIC	A-3-077	74S02		Quad Two-Input NOR Gate	
LOGIC	A-3-078	74S04		Hex Inverter	
LOGIC	A-3-078A	74S08		Quad 2-Input AND Gate	
LOGIC	A-3-079	74S09		Quad 2-Input AND Gate	
LOGIC	A-3-079A	74S10		Triple 3-Input NAND Gate	
LOGIC	A-3-079B	74S11		Triple 3-Input AND Gate	
LOGIC	A-3-080A	74S32		QUADRUPLE 2-INPUT POSITIVE-OR GATES	
LOGIC	A-3-080B	74S74		DUAL D-TYPE POSITIVE-EDGE-TRIGGERED FLIP-FLOP WITH PRESET AND CLEAR	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
LOGIC	A-3-081	74S112		DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP WITH PRESET AND CLEAR	
LOGIC	A-3-081A	74S113		Dual JK Edge Triggered Flip-Flop	
LOGIC	A-3-083	74LS181		4-Bit Arithmetic Logic Unit	
LOGIC	A-3-084A	74LS174		IC HEX D-TYPE F-F W/CLR 16-DIP	
LOGIC	A-3-085	74S240		IC INVERTER DUAL 4-INPUT 20DI	
LOGIC	A-3-087A	74LS374		IC OCT D-TYPE FLIP-FLOP 20-DIP	
LOGIC	A-3-106	MC14013		Dual Type D Flip-Flop	
LOGIC	A-3-118A	CD4543BE		CMOS BCD-to-Seven-Segment Latch/Decoder/Driver	
LOGIC	A-3-119	MC14077		CMOS SSI Quad Exclusive "OR" and "NOR" Gates	
LOGIC	B-1-075	LF398N	LM398N	Sample Hold Circuit	
LOGIC	B-1-078	LM565CN	LM565CH	Loop Phase Locked	
LOGIC	B-2-013	XR2212CP		Loop Phase Locked Precision	
LOGIC	B-2-029	LTC1043CN		Building Bloc Dual Precision	
LOGIC	B-2-051	TCM3105NL		Modem Asynchronous FSK	
LOGIC	B-2-052	TL7726CP		Clamping Circuit Hex	
LOGIC	B-2-079	MAX705		µP Supervisory Circuits	
LOGIC	B-3-020	AD9054A		IC ADC 8BIT 200MSPS 44-LQFP	Digi-Key
LOGIC	B-3-023	X9C103P		IC DIGITAL POT 10K 100TP 8DIP	Digi-Key
LOGIC	B-3-028	MC14011BCP		IC,LOGIC GATE,QUAD 2-INPUT NAND,CMOS	Digi-Key
LOGIC	B-4-005	74283	A-1-095	4-Bit Binary Adder with Fast Carry	
LOGIC	B-4-008	74LS08	A-1-009	Quad 2-Input AND Gates	
LOGIC	B-4-009	74LS73	A-2-011	DUAL J-K FLIP-FLOPS WITH CLEAR	
LOGIC	B-4-010	74LS86	A-2-018	QUAD 2-INPUT EXCLUSIVE OR GATE	
LOGIC	B-4-036	SN54107		Dual J-K Flip-Flops With Clear	
MEMORY	A-3-105	MCS6530		Memory (I-O) Timer Array	
MICROCONTROLLE	A-3-034	81C79/45		8-BIT SINGLE-CHIP MICROCONTROLLERS	
MICROPHONE	H-2-059	17575 MK		MINI FET MICROPHONE/LEADS	Marlin P. Jones
MICROPROCESSOR	A-3-090A	SY6502A		8 BIT MICROPROCESSOR	
MILLING MACHINE	235-A-001	108911-1		GREEN BIT 0.2mm(7.9 mil) Drill Bit 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-002	100977-1		GREEN BIT 0.30MM(11.8mil)Drill Bit 1.5"OAL w/rings	LPKF

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MILLING MACHINE	235-A-003	100978-1		Green Bit 0.4mm (15.8 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-004	100979-1		Green Bit 0.5mm (19.7 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-005	100980-1		Green Bit 0.6mm (23.6 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-006	100981-1		Green Bit 0.7mm (27.6 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-007	100982-1		Green Bit 0.8mm (31.5 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-008	100984-1		Green Bit 0.9mm (35.4 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-009	100985-1		Green Bit 1.0mm (39.4 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-010	100986-1		Green Bit 1.1mm (43.3mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-011	100987-1		Green Bit 1.2mm (47.2mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-012	100989-1		Green Bit 1.3mm (51.2mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-013	100990-1		Green Bit 1.4mm (55.1mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-014	100991-1		Green Bit 1.5mm (59.1mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-015	100996-1		Green Bit Drill Bit 2.00 mm (78.7 mil) w/ green ring	BLANK
MILLING MACHINE	235-A-016	101006-1		Green Bit Drill Bit 2.95 mm (116.1 mil) w/ green ring	LPKF
MILLING MACHINE	235-A-017	101007-1		Green Bit Drill Bit 3.00 mm (118.1 mil) w/ green ring	LPKF
MILLING MACHINE	235-A-018	101012-2		PURPLE End Mill 31mil(0.8mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-019	101014-2		PURPLE End Mill 39mil(1.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-020	101016-2		PURPLE End Mill 79mil(2.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-021	101018-2		PURPLE End Mill 118mil(3.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-022	100890-4		Milling Bit .0.1- 0.15 mm (4-6 mil) w/ orange ring	LPKF
MILLING MACHINE	235-A-023	101010-4		Milling Bit 0.2 - 0.3 mm (8-12 mil) w/ orange ring	LPKF
MILLING MACHINE	235-A-024	100879-5		Yellow Router Bit DD routers 39mils(1.0mm)1.5" OAL w/rings	LPKF
MILLING MACHINE	235-A-025	100881-5		Yellow Router Bit DD Routers 79 mils(2.0 mm) w/ring 1.5" OAL	LPKF
MILLING MACHINE	235-A-026	100883-5		Yellow Router Bit DD Routers 98 mils(3.0 mm) w/ring 1.5" OAL	LPKF
MILLING MACHINE	235-A-027	100888-6		BLUE End Mill 10mil(0.25mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-028	100862-6		BLUE End Mill 15.7mil(0.4mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-029	100806-6		BLUE End Mill 4mil(0.10mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-030	107244-6		BLUE End Mill 6mil(0.15mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	235-A-031				
MILLING MACHINE	235-A-032				BLANK

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MILLING MACHINE	235-A-033				BLANK
MILLING MACHINE	235-A-034				
MILLING MACHINE	235-A-035				
MILLING MACHINE	235-A-036				
MILLING MACHINE	235-A-037				
MILLING MACHINE	235-A-038				
MILLING MACHINE	235-A-039				
MILLING MACHINE	235-A-040				
MILLING MACHINE	235-A-041				
MILLING MACHINE	235-A-042	100197		PILOT PINS	LPKF
MILLING MACHINE	235-A-043	115513		Guide Limiter for S62 Milling Machine	LPKF
MILLING MACHINE	235-A-044	AG143-5		Filter Pack for S-62-S63 Milling Machine	LPKF
MILLING MACHINE	235-A-045	114625		O-Rings for ProtoMat S62, S100 Pack of 10	LPKF
MILLING MACHINE	235-A-046	100039		SET Pin Strips	LPKF
MILLING MACHINE	235-A-047	127116		Guide Limiter for S63 Milling Machine	LPKF
MILLING MACHINE	235-A-048	F160		HEPA Filter for S-62-S63 Milling Machine	LPKF
MILLING MACHINE	P-1-001	108911-1		GREEN BIT 0.2mm(7.9 mil) Drill Bit 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-002	100977-1		GREEN BIT 0.30MM(11.8mil)Drill Bit 1.5"OAL w/rings	LPKF
MILLING MACHINE	P-1-003	100978-1		Green Bit 0.4mm (15.8 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-004	100979-1		Green Bit 0.5mm (19.7 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-005	100980-1		Green Bit 0.6mm (23.6 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-006	100981-1		Green Bit 0.7mm (27.6 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-007	100982-1		Green Bit 0.8mm (31.5 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-008	100984-1		Green Bit 0.9mm (35.4 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-009	100985-1		Green Bit 1.0mm (39.4 mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-010	100986-1		Green Bit 1.1mm (43.3mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-011	100987-1		Green Bit 1.2mm (47.2mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-012	100989-1		Green Bit 1.3mm (51.2mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-013	100990-1		Green Bit 1.4mm (55.1mil) Drill Bits 1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-014	100991-1		Green Bit 1.5mm (59.1mil) Drill Bits 1.5" OAL w/rings	LPKF

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MILLING MACHINE	P-1-015	101006-1		Green Bit Drill Bit 2.95 mm (116.1 mil) w/ green ring	LPKF
MILLING MACHINE	P-1-016	101007-1		Green Bit Drill Bit 3.00 mm (118.1 mil) w/ green ring	LPKF
MILLING MACHINE	P-1-017	100996-1		Green Bit Drill Bit 2.00 mm (78.7 mil) w/ green ring	BLANK
MILLING MACHINE	P-1-018	BLANK		BLANK	BLANK
MILLING MACHINE	P-1-019	101012-2		PURPLE End Mill 31mil(0.8mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-020	101014-2		PURPLE End Mill 39mil(1.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-021	101016-2		PURPLE End Mill 79mil(2.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-022	101018-2		PURPLE End Mill 118mil(3.0mm)1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-023	100890-4		Milling Bit .01- 0.15 mm (4-6 mil) w/ orange ring	LPKF
MILLING MACHINE	P-1-024	101010-4		Milling Bit 0.2 - 0.3 mm (8-12 mil) w/ orange ring	LPKF
MILLING MACHINE	P-1-025	100879-5		Yellow Router Bit DD routers 39mils(1.0mm)1.5" OAL w/rings	LPKF
MILLING MACHINE	P-1-026	100881-5		Yellow Router Bit DD Routers 79 mils(2.0 mm) w/ring 1.5" OAL	LPKF
MILLING MACHINE	P-1-027	100883-5		Yellow Router Bit DD Routers 98 mils(3.0 mm) w/ring 1.5" OAL	LPKF
MILLING MACHINE	P-1-028	BLANK		BLANK	BLANK
MILLING MACHINE	P-1-029	100197		PILOT PINS	LPKF
MILLING MACHINE	P-1-030	100039		SET Pin Strips	LPKF
MILLING MACHINE	P-1-031	100862-6		BLUE End Mill 15.7mil(0.4mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-032	100888-6		BLUE End Mill 10mil(0.25mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-033	107244-6		BLUE End Mill 6mil(0.15mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-034	100806-6		BLUE End Mill 4mil(0.10mm) 1.42" OAL w/rings	LPKF
MILLING MACHINE	P-1-035	115513		Guide Limiter for S62 Milling Machine	LPKF
MILLING MACHINE	P-1-035A	127116		Guide Limiter for S63 Milling Machine	LPKF
MILLING MACHINE	P-1-036	114625		O-Rings for ProtoMat S62, S100 Pack of 10	LPKF
MILLING MACHINE	P-1-037	AG143-5		Filter Pack for S-62-S63 Milling Machine	LPKF
MILLING MACHINE	P-1-038	F160		HEPA Filter for S-62-S63 Milling Machine	LPKF
MIXER	A-3-026A	SA612AN		Up/Down Conv Mixer 500MHz 8-Pin PDIP	
MIXER	B-1-116	NE602AN		Mixer/Oscillatot Double Balance GP	
MOD-DEMOD	B-4-016	LM1496N		Balanced Modulator-Demodulator	
MODULATOR	B-1-035	LM1496N		Modulator/Demodulator Balance <1GHz GP	
MODULATOR	B-1-096	MC1372P		Modulator Color TV Video	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MODULATOR	B-1-107	MC3417L		Delta Modulation System Continuously Variable Slop	
MODULATOR	B-1-119	SG3526N		Pulse Width Modulation Circuit	
MOSFET-TRAN	B-3-069A	IRFP450B	512-IRFP450B	500 V N Ch B-FET Mosfet	Mouser
MOSFET-TRAN	B-3-109	STP20NF06		MOSFET, N-Chan, 60 V, 20 A, TO-220	Digi-Key
MOSFET-TRAN	B-3-110	IRF9510PBF		MOSFET, P-Chan, 100 V, 3 A, TO-220AB	Digi-Key
MOSFET-TRAN	C-1-114	IRF510	C-2-017	MOSFET N-CH 100V 5.6A TO-220AB	Digi-Key
MOSFET-TRAN	C-1-114A	IRFP450IR	IRFP450	MOSFET N-CH 500V 14A TO-247AC	Digi-Key
MOSFET-TRAN	C-2-015	IRFD110		Trans, MOSFET N Chan, 100 V, 1 A	Digi-Key
MOSFET-TRAN	C-2-015A	IRFD9110PBF	IRFD9110FBF	Trans, Mosfet N Chan, 100V, 700mA	Digi-Key
MOSFET-TRAN	C-2-015C	IRFD220PBF	IRFD220PBF-ND	MOSFET N-CH 200V 800MA 4-DIP	Digi-Key
MOSFET-TRAN	C-2-016	IRFU210PBF		Trans, MOSFET N Chan, 200 V, 2.6 A	Digi-Key
MOSFET-TRAN	C-2-016A	IRF620IR		Trans, MOSFET N Chan, 200 V, 5.2 A TO-220AB	Digi-Key
MOSFET-TRAN	C-2-017	IRF510		Trans, MOSFET N Chan, 100 V, 5.6 A	Jameco
MOSFET-TRAN	C-2-018	IRL510		Trans, MOSFET N Chan, 100 V, 5.6 A	Digi-Key
MOSFET-TRAN	C-2-019	IRF520NPBF		Trans, MOSFET N Chan, 100 V, 9.7 A	Digi-Key
MOSFET-TRAN	C-2-019A	IRFB23N15DPBF		MOSFET N-CH 150V 23A TO-220AB	Digi-Key
MOSFET-TRAN	C-2-020	IRF540		Trans, MOSFET N Chan, 100 V, 28 A	Digi-Key
MOSFET-TRAN	C-2-021	IRF640N		Trans, MOSFET N Chan, 200 V, 18 A	Digi-Key
MOSFET-TRAN	C-2-022	IRF9530		Trans, MOSFET P Chan, 100 V, 12 A	Digi-Key
MOSFET-TRAN	C-2-023	IRFI9620GPBF		Trans, MOSFET P Chan, 200 V, 3 A	Digi-Key
MOSFET-TRAN	C-2-024	ZVN2106A		Trans, MOSFET N Chan, 60 V, 450 ma	Digi-Key
MOSFET-TRAN	C-2-025	ZVN2110A		Trans, MOSFET N Chan, 100 V, 320 ma	Digi-Key
MOSFET-TRAN	C-2-027	ZVP2110		Trans, MOSFET P Chan, 100 V, 230ma	Digi-Key
MOSFET-TRAN	C-2-031	IRL540N	M54	Trans, MOSFET N Chan, 100 V, 36 A	Digi-Key
MOSFET-TRAN	C-2-035	2SK3043		Trans, MOSFET N Chan, 450 V, 5 A	Digi-Key
MOSFET-TRAN	C-2-037	P20N10	NTE2396	Trans, MOSFET N Chan, Enhancement Mode	NTE
MOSFET-TRAN	C-2-043	MTP60N6H	NTP60N06G	Trans, MOSFET, Pwr N Chan, 60 V, 60 A	Mouser
MOSFET-TRAN	C-2-062	2SK3564		Trans, MOSFET N Chan, 900 V, 3 A	Digi-Key
MOSFET-TRAN	C-2-074	2SK3919		Single MOSFET, N Chan	Mouser
MOSFET-TRAN	C-2-078	IXTP1R6N50P		MOSFET, N Chan, 500 V, 1 A	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MOSFET-TRAN	C-2-084	IRF9531	NTE2383	Trans, MOSFET, P Chan, 60 V, 12 A	Mouser
MOSFET-TRAN	C-2-086	2N5460		JFET, P Chan, GP Amp	Mouser
MOSFET-TRAN	C-2-096	IRF1010		MOSFET, N Chan, 55 V, 75 A	Digi-Key
MOSFET-TRAN	C-2-099	SPU01N60C3IN		MOSFET N Chan, 650 V, .8 A	Digi-Key
MOTOR	203/211	LB11ABM-4R		STEPPER MOTOR 24V, 4PH, 0.96A, 15Deg	Marlin P. Jones
MOTOR	203/211	57BYGH213		STEPPER MOTOR Size 57, 6.2VDC/6.2Ohms/10mH, 6 Leads	Marlin P. Jones
MULTIPLEXER	A-3-014	74ALS251		8-input multiplexer 3-State	
MULTIPLEXER	A-3-041A	74F151		8-Input Multiplexer	
MULTIPLEXER	A-3-047	74F251		8-Input Multiplexer with 3-STATE Outputs	
MULTIPLEXER	A-3-047A	74F253		Dual 4-bit Input Multiplexer 3-State	
MULTIPLEXER	A-3-048	74F257		Quad 2-Input Multiplexer with 3-STATE Outputs	
MULTIPLEXER	A-3-080	74S15		8-Input Multiplexer	
MULTIPLEXER	A-3-082B	74LS151		8-Input Multiplexer	
MULTIPLEXER	A-3-086	74LS251		IC 8-IN DATA SELCT/MUX 3ST 16DIP	
MULTIPLEXER	A-3-086B	74LS257		IC QUAD 2-1 DATA SEL/MUX 16-DIP	
MULTIPLEXER	A-3-117B	MC14539BCP		DUAL 4-CHANNEL DATA SELECTOR/MULTIPLEXER	
MULTIPLEXER	A-3-120A	MM74HC4053N		Triple 2-Channel Analog Multiplexer	
MULTIPLEXER	B-1-019	DG508AC		Multiplexer 8 Channel CMOS	
MULTIPLEXER	B-1-020	DG509AC		Multiplexer 4 Channel Differential	
MULTIPLEXER	B-1-097	MC14016B		Switch/Multiplexer Analog Quad CMOS Logic	
MULTIPLEXER	B-2-017	HI-508A-5		MUX ANALOG CMOS 8:1 16-DIP	Digi-Key
MULTIPLEXER	B-2-075	MAX355CPE		Multiplexer Fault Protected Analog	
MULTIPLEXER	B-2-090	MPY634KP		Switches and Multiplexers ANALOG MULTIPLIER	Mouser
MULTIPLEXER	B-2-101	MPC506AP		Multiplexer 16Ch/Differential 8Ch Single Ended CMOS	
MULTIPLEXER	B-3-003	MAX396EPI		CMOS Analog Multiplex, Low-V, Dual 8 Ch	
MULTIPLIER	A-3-116	CD4527BE		CMOS BCD Rate Multiplier 16-PDIP -55 to 125	
MULTIPLIER	B-1-034	LM1494L	MC1494L	Multiplier 4 Quadrant	
MULTIPLIER	B-2-095A	MLT04GPZ-ND		IC MULTIPLIER 4-QUADRANT 18-DIP	Digi-Key
MULTIVIBRATOR	A-2-120	MC14528BCPGOS		IC MULTIVIBRATOR DUAL 16 DIP	
MULTIVIBRATOR	A-3-106A	MC14538	MC14538BCPG	Dual Precision Retriggerable/Resettable Monostable Multivibrator	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
MULTIVIBRATOR	A-3-117	CD4538BE		CMOS Dual Precision Monostable Multivibrator	
MULTIVIBRATOR	B-1-006	DM9601N	9601IC	Multivibrator Monostable Dual Retrigger/Reset	
MULTIVIBRATOR	B-1-007	96L02PC	7550P	Multivibrator Monostable Dual Retrigger/Reset	
OPAMP	B-4-017	LM318		General Purpose Op-Amp	
OPAMP	B-4-018	LM324		Low Power Quad Operational Amplifier	
OP-AMP	A-2-108	NJM13600		IC DUAL TRANSCONDUCT OP AMP 16DIP	
OP-AMP	A-2-109	LT1014		Quad Precision Op Amp	
OP-AMP	A-2-115	MC33502POS		IC Op Amp Dual R-R 1V 8 DIP	
OP-AMP	B-1-008	AD544JH		Op Amp BIFET Hi Performance	
OP-AMP	B-1-009B	AD627AN		IC AMP INST R-R 25MA 8DIP	Digi-Key
OP-AMP	B-1-018	CLC450		Op Amp Hi Output Current Feedback	
OP-AMP	B-1-029	LM13600N	S+B8620	Op Amp Dual Transconductive w/Linerizing Diode	
OP-AMP	B-1-029A	AD623AN		IC AMP INST R-R LP 8DIP	Digi-Key
OP-AMP	B-1-031	LM1458N	JM24AD/	Op Amp Dual	
OP-AMP	B-1-031A	MC1458P	LM1458N	Op Amp Dual General Purpose	
OP-AMP	B-1-042	LM201N		Op Amp	
OP-AMP	B-1-045	LM2902N	K8648	Op Amp Quad Lower Power	
OP-AMP	B-1-047	UPC301AC	LM301N	Op Amp	
OP-AMP	B-1-047A	ISO124P	ISO124P-ND	IC OPAMP Isolated 50Khz SGL 16DIP	Digi-Key
OP-AMP	B-1-049	LM307N	TL081ACP	IC OPAMP JFET 3MHZ SGL 8DIP	Digi-Key
OP-AMP	B-1-050	LM308N	K8418C	Op Amp Micropower	
OP-AMP	B-1-052	LM318P	3180	Op Amp High Speed	
OP-AMP	B-1-052A	LM7171BIN/NOPB		IC AMP VERY HIGH SPEED V FDBK 8-DIP	Digi-Key
OP-AMP	B-1-054	LM324N	KA324A	Quad Op Amp Low Power 14DIP	Digi-Key
OP-AMP	B-1-057A	TC7662AEPA	TC7662AEPA-ND	IC CHARGE PUMP DC/DC CONV 8-DIP	Digi-Key
OP-AMP	B-1-060	LM3401	SG3401	Op Amp Quad	
OP-AMP	B-1-061	LM346N		Op Amp Quad Programmable	
OP-AMP	B-1-062	LM348N		Op Amp Quad 741	
OP-AMP	B-1-063	LM351N	LF351N	Op Amp BiFET	
OP-AMP	B-1-063A	LF351N	LM351N	IC OPAMP J-FET SINGLE 8-DIP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
OP-AMP	B-1-064	LF353N/P		Op Amp BiFET	
OP-AMP	B-1-064A	LF412CN	LF412CN-ND	IC OP AMP DUAL LOW JFET IN 8-DIP	Digi-Key
OP-AMP	B-1-065	LF356N		Op Amp JFET Input	
OP-AMP	B-1-067	LM358N		IC OP AMP DUAL LOW PWR 8-DIP	
OP-AMP	B-1-071	LM387N		Op Amp Dual Low Noise Preamp	
OP-AMP	B-1-072	LM3900N		Op Amp Quad	
OP-AMP	B-1-082	LM709CN	709-5N	Op Amp	
OP-AMP	B-1-085	LM741CN	LM741H	Op Amp Compensated	
OP-AMP	B-1-087	LM747CN	UA747CN	Op Amp Dual 741	
OP-AMP	B-1-088	LM748	UA748C	Op Amp Adjusted 741	
OP-AMP	B-1-092	LM725CN		Op Amp Instrumentation	
OP-AMP	B-1-094	MAX402/3	MAX438	Op Amp High Speed	
OP-AMP	B-1-094A	LM7171BIN	LM7171BIN-ND	IC AMP VERY HI SPD V FDBK 8-DIP	Digi-Key
OP-AMP	B-1-106	MC33303P		Op Amp Quad Internally Compensated Differential	
OP-AMP	B-1-117	OP27	OP27GPZ-ND	Op Amp Precision Low Noise 8-DIP	Digi-Key
OP-AMP	B-1-117A	OP77FZ		IC PRECISION OPAMP LOW OFFSET V 8CDIP	Digi-Key
OP-AMP	B-1-118	RC4136N	SN99412N	Op Amp Quad	
OP-AMP	B-1-118A	AD622AN		IC AMP INST LP 18MA 8DIP	Digi-Key
OP-AMP	B-1-120	TL084CN		Op Amp Quad JFET Input	
OP-AMP	B-1-120A	MC4558N	497-1960-5-ND	IC AMP DUAL BIPOLAR OP 8 DIP	Digi-Key
OP-AMP	B-2-002	TL081CP	LM307N	Op Amp JFET Input	
OP-AMP	B-2-002A	TL080CP	296-10127-5-ND	IC OPAMP JFET 3MHZ SGL 8DIP HIGH FREQUENCY	Digi-Key
OP-AMP	B-2-003	TL082CP		Op Amp BIFET Dual GP	
OP-AMP	B-2-007	UA739PC		Op Amp Dual High Performance	
OP-AMP	B-2-023	LM2904N	CA2904E	Op Amp Dual	
OP-AMP	B-2-026	LMC6484AIN		Op Amp Quad CMOS	
OP-AMP	B-2-026A	OP177		IC OPAMP GP PREC LN 8DIP	Digi-Key
OP-AMP	B-2-028	LT1056CN8		Op Amp JFET Hi Speed	
OP-AMP	B-2-047	MC33078P		Op Amp Low Noise	
OP-AMP	B-2-048	MC33274AP		Op Amp Bi-Polar	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
OP-AMP	B-2-049	OPA2604AP		Op Amp Dual FET in Low Distortion	
OP-AMP	B-2-053	TLC2274ACN	TLC2274IN	IC R-TO-R QUAD OP AMP 14-DIP	Digi-Key
OP-AMP	B-2-057	LPC662AIN		Op Amp Dual CMOS R to R 5V	
OP-AMP	B-2-060	LM13700N		Op Amp Dual Transconductive	
OP-AMP	B-2-061	LT1211		Op Amp Dual Precision	
OP-AMP	B-2-065	RC748P	RM748	Op Amp GP	
OP-AMP	B-2-066	TLC274ACN		Op Amp Quad Precision Single Supply	
OP-AMP	B-2-067	TLC1078CP		Op Amp Precision	
OP-AMP	B-2-068	TLC2201IP		Op Amp Low Noise Precision & Split Supply	
OP-AMP	B-2-069	TLC2272CP		Op Amp Dual R to R Single Supply	
OP-AMP	B-2-070	LF347N		Op Amp Quad JFET Wide Bandwidth	
OP-AMP	B-2-086	CA3080E		Op Transconductance Amplifier	
OP-AMP	B-2-094	OPA549T		Op Amp High Voltage - High Current	
OP-AMP	B-2-094A	OPA27GP-ND	OPA27GP	IC OPAMP GP 8MHZ SGL LN 8DIP	Digi-Key
OP-AMP	B-2-094B	OPA2544T		High Voltage, High Current Dual OpAmp	
OP-AMP	B-2-094C	OPA544T	OPA544T	Op Amp High Voltage - High Current TO-220-5	Digi-Key
OP-AMP	B-2-095	OPA501AM		Op Amp High Voltage - High Current	
OP-AMP	B-2-105	MCP602-I/P		Op Amp Single Supply CMOS	
OP-AMP	B-2-107	TLC2202CP		Dual Low-noise Precision R to R Op Amp	
OP-AMP	B-2-109	OPA2350PA		Op Amp High Speed Single Supply	
OP-AMP	B-2-110	TLV2761IP		SINGLE LOW-POWER RAIL-TO-RAIL I/	Digi-Key
OP-AMP	B-2-111	OPA251PA		IC MICRO POWER OPAMP 8-DIP	Digi-Key
OP-AMP	B-2-113	OPA743PA		Op Amp R to R I/O	Digi-Key
OP-AMP	B-2-118	OPA241PA		IC Micro Power LV Op Amp 8-DIP	Digi-Key
OP-AMP	B-2-119	OPA2241PA		IC Dual Micro Power Op Amp 8-DIP	Digi-Key
OP-AMP	B-2-120	OPA4241PA		IC Quad Micro Power Op Amp, 5 V	Digi-Key
OP-AMP	B-3-001	OPA4251PA		IC Quad Micro Power Op Amp, 15 V	Mouser
OP-AMP	B-3-002	LM833N		Dual Audio Op Amp, 15 MHz BW	Digi-Key
OP-AMP	B-3-005	CLC428		Op Amp, Dual Wideband/ Low-Noise/ Voltage Feedback	
OP-AMP	B-3-007	INA114BU		Precision Instrument Amp- SMD Package	Mouser

CATEGORY	Location	Part_Number	Substitute	Description	Vender
OP-AMP	B-3-007A	INA118P-ND		IC OPAMP INSTR 800KHZ SGL 8DI \$12.42ea	Mouser
OP-AMP	B-3-008	TL034CN		IC QUAD ENH-JFET OP AMP 14-DIP	Digi-Key
OP-AMP	B-3-029	AD620AN	AD620AN-ND	IC OP-AMP INSTRUMENTATION LP 8-DIP	Digi-Key
OP-AMP	B-3-044	PA26		Op Amp	MicroTech
OP-AMP	B-3-057	MCP604-I/P		IC OPAMP QUAD SNGL SUPPLY 14DIP	Digi-Key
OP-AMP	B-3-057A	MCP606-I/P	MCP606-I/P-ND	IC OPAMP GP 155KHZ RRO 8DIP	Digi-Key
OP-AMP	B-3-058	LF356N		IC OP AMP MONO WB JFET IN 8-DIP	Digi-Key
OP-AMP	B-3-059	MCP601-I/P		IC OP AMP SNGL SUPPLY R-R 8DIP	Digi-Key
OP-AMP	B-3-062	MC3403N		IC OP AMP QUAD BIPOLAR LP 14-DIP	Digi-Key
OP-AMP	B-3-063	CLC432AJP		Dual Wideband Monolithic Op Amp	
OP-AMP	B-3-063A	RC4580IP	296-15368-5-ND	IC OPAMP AUDIO STEREO AB 8DIP	Digi-Key
OPTO-COUPLER	B-3-064	H11AA1		OPTOCOUPLER PHOTOTRANS 20% 6DIP	Digi-Key
OPTO-COUPLER	B-3-064B	H11AV1M		OPTOISOLATOR TRANS-OUT 6-DIP	Digi-Key
OPTO-COUPLER	B-3-064B	6N138	160-1795-ND	OPTOCOUPLER DARLINGTON OUT 8-DIP	Digi-Key
OPTO-ISOLATOR	B-3-063C	160-1304-5-ND	4N35	OPTOIS3.55KV TRANS W/BASE 6DIP	Digi-Key
OSCILLATOR	A-3-081B	74LS124		DUAL VOLTAGE-CONTROLLED OSCILLATORS	
OSCILLATOR	B-2-087A	SA602AN/01,112	NTE7164	IC MIXER/OSC DOUBLE-BAL 8-DIP 568-1201-5-ND	Digi-Key
OSCILLATOR	B-4-046			VARIOUS OSCILLATORS 49.405, 49.435, 49.860, 49.890, 3579.545	
PARITY GEN	A-3-086A	74LS280		IC PARITY GEN/CHKER 9BIT 14DI	
PHASE LOCKED LO	B-4-020	LM560		Phase Locked Loop IC	
PHOTOCELL	H-2-055	PDV-P9103-ND		PHOTOCELL 20K-45K OHM 4.20MM	Digi-Key
PHOTOCELL	H-2-056	PDV-P8006-ND		PHOTOCELL 80K-240K OHM 5.10MM	Digi-Key
PHOTOCELL	H-2-057	PDV-P5002-ND		PHOTOCELL 12K-30K OHM 11MM	Digi-Key
PHOTOCELL	H-2-058	PDV-P8005-ND		PHOTOCELL 40K-120K OHM 5.10MM	Digi-Key
PHOTOTRANSISTO	D-2-103	BPW36	BPW36-ND	IC PHOTOTRANSISTOR HERM TO-18 880nm	Digi-Key
PHOTOVOLTAIC	J-2-001	SZGD12060		3V 300mA Solar Cell	Futurlec
PHOTOVOLTAIC	J-2-002	SZGD8553		6.0V 60mA Solar Cell	Futurlec
PHOTOVOLTAIC	J-2-003	SZGD11080		12.0V 80mA Solar Cell	Futurlec
PIC CONTROLLER	D-1-061	PIC12F675-I/P		PICmicro - PIC12Fxxx Flash MCUs 1.75KB 64 RAM 6	Mouser
PIC CONTROLLER	D-1-062A	PIC16C505/JW		IC MCU EPROM 1KX12 14CDIP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
PIC CONTROLLER	D-1-062B	PIC16LC72A-04/SS		IC MCU OTP 2KX14 A/D PWM 28SSOP	Digi-Key
PIC CONTROLLER	D-1-063A	PIC18LF2580-I/SP		IC PIC MCU FLASH 16KX16 28-DIP	Digi-Key
PIC CONTROLLER	D-1-063B	PIC18F458-I/P		IC MCU FLASH 16KX16 CAN 40DIP	Digi-Key
PIC CONTROLLER	D-1-064A	PIC12C509AG	PIC12C509JW	8-Pin, 8-Bit CMOS Microcontrollers	
PIC CONTROLLER	D-1-064B	PIC18F1220		PICmicro - PIC18Fxxx Flash MCUs 4KB 256 RAM 16 I/O	Mouser
PIC CONTROLLER	D-1-065	PIC12C672-10/P	PIC12C672/JW	MCU OTP 2KX14 A/D 8DIP	Digi-Key
PIC CONTROLLER	D-1-066	PIC16C54A-04/P	PIC16C54/JW	MCU OTP 512X12 18DIP	Digi-Key
PIC CONTROLLER	D-1-067	PIC16C58A-04/P		8-bit fully static, EPROM/ROM-based CMOS microcontrollers	MicroChip
PIC CONTROLLER	D-1-068	PIC18F4580-I/P		IC PIC MCU Flash 16KX16 40 DIP	Digi-Key
PIC CONTROLLER	D-1-068A	PIC16C73A		8-BIT Mic, Mem Size RAM:192B	Digi-Key
PIC CONTROLLER	D-1-069	PIC16C74B-04I/P	PIC16C74B/JW	8-BIT CMOS MCU, RAM:192Byte, clock:4MHz	Digi-Key
PIC CONTROLLER	D-1-070	PIC16C77/JW		CMOS OTP-based 8-bit microcontroller	Obsolete
PIC CONTROLLER	D-1-071	PIC16C642-04/SO		8-Bit Microcontroller, Clock Speed:20MHz, 28-SOIC	Newark
PIC CONTROLLER	D-1-072	PIC16C715-04/P	PIC16C715/JW	8-Bit Microcontroller, RAM:128B, Clock Speed:4MHz	Newark
PIC CONTROLLER	D-1-073A	PIC16C62A/JW		8-Bit Microcontroller, RAM:128B, Clock Speed:20MHz	MicroChip
PIC CONTROLLER	D-1-073B	PIC16C745-I/SP	PIC16C745/JW	MCU OTP 8KX14 USB A/D 28DIP	Digi-Key
PIC CONTROLLER	D-1-074	PIC1C765/JW		MCU EPROM 8KX14 USB 40CDIP	Digi-Key
PIC CONTROLLER	D-1-075	PIC16C771/P		8BIT CMOS MCU, 16C771, DIP20	Newark
PIC CONTROLLER	D-1-076	PIC16C773/SP	PIC16C773/JW	8-Bit Microcontroller IC; Controller, OTP:7 KB; Mem, 256Byte	Newark
PIC CONTROLLER	D-1-077A	PIC16F84A-04/P		MCU FLASH 1KX14 EE 18DIP	Digi-Key
PIC CONTROLLER	D-1-077B	PIC16F84-10/P		MCU FLASH 1KX14 EE 18DIP	Digi-Key
PIC CONTROLLER	D-1-078	PIC16F747-I/P	PIC16LF747-I/P	PIC MCU FLASH 4KX14 44TQFP	Digi-Key
PIC CONTROLLER	D-1-079	PIC16F777-I/P	PIC16LF777-I/P	PIC MCU FLASH 8KX14 40DIP	Digi-Key
PIC CONTROLLER	D-1-080	PIC16F877A-I/P	PIC16F877A-I/P-ND	MCU FLASH 8KX14 EE 40DIP	Digi-Key
PIC CONTROLLER	D-1-080A	PIC16F877A-I/P	PIC16F877A-I/P-ND	MCU FLASH 8KX14 EE 40DIP	Digi-Key
PIC CONTROLLER	D-1-081	PIC16F877-20/P		MCU FLASH 8KX14 EE 40DIP	Digi-Key
PIC CONTROLLER	D-1-082	PIC17C44-33/L	PIC17C44/JW	MCU OTP 8KX16 PWM 44PLCC	Digi-Key
PIC CONTROLLER	D-1-083	PIC18F248-I/SP		MCU FLASH 8KX16 CAN 28DIP	Digi-Key
PIC CONTROLLER	D-1-083A	PIC18F242-I/SP	579-PIC18F242	8-bit Microcontrollers - MCU 16KB 768 RAM 23I/O	Mouser
PIC CONTROLLER	D-1-084	PIC18F252-I/SP	PIC18F252-I/SO	MCU FLASH 16KX16 EE 28DIP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
PIC CONTROLLER	D-1-085	PIC18F258-I/SP	PIC18LF258-I/SP	MCU FLASH 16KX16 CAN 28DIP	Digi-Key
PIC CONTROLLER	D-1-085A	PIC18F2580-I/SP	PIC18LF2580-I/SP	IC MCU 8BIT 32KB FLASH 28SDIP	Digi-Key
PIC CONTROLLER	D-1-086	PIC18F452-I/P		MCU FLASH 16KX16 EE 40DIP	Digi-Key
PIC CONTROLLER	D-1-087	PIC18F458-I/P		MCU FLASH 16KX16 CAN 40DIP	Digi-Key
PIC CONTROLLER	D-1-088	PIC18F2320-I/SP		MCU FLASH 4KX16 EEPROM 28DIP	Digi-Key
PIC CONTROLLER	D-1-089	PIC18F4320-I/P		MCU FLASH 4KX16 A/D 40-DIP	Digi-Key
PIC CONTROLLER	D-1-090	PIC18F4550-I/P	PIC18F45J10-1/P	PIC MCU FLASH 16KX16 40DIP	Digi-Key
PIC CONTROLLER	D-1-091	PIC16C76/JW	PIC16C76-20/SP	MCU OTP 8KX14 A/D PWM 28DIP	Digi-Key
PIC CONTROLLER	D-1-092	PIC16F876-20/SP		MCU FLASH 8KX14 EE 28DIP	Digi-Key
PIC CONTROLLER	D-1-093	PIC16F876A-I/SP		MCU FLASH 8KX14 EE 28DIP	Digi-Key
PIC CONTROLLER	D-1-094	PIC18F45J10-I/P-ND		IC PIC MCU FLASH 16KX16 40DIP	Digi-Key
PIC CONTROLLER	D-1-095	PIC18F4220-I/P		MCU FLASH 2KX16 A/D 40-DIP	Digi-Key
PIC CONTROLLER	D-1-096	PIC18LF4420-I/P		MCU FLASH 8KX16 40DIP	Digi-Key
PIC CONTROLLER	D-1-097				
PIC CONTROLLER	D-1-098	PIC18F4620-I/P	ECE376, Dr. Glower	IC MCU FLASH 32KX16 40DIP Programmed 02/10/2010	Digi-Key
PIC CONTROLLER	D-1-099	PIC33FJ128GP		IC DSPIC MCU/DSP 128K 28DIP	Digi-Key
PIC CONTROLLER	D-1-099A	DS89C450-MNL+	700-DS89C450	8-bit Microcontrollers - MCU Ultra-High-Speed Flash MCU	Mouser
POTENTIOMETER	H-2-061	10 OHM			
POTENTIOMETER	H-2-062	50 OHM			
POTENTIOMETER	H-2-063	100 OHM			
POTENTIOMETER	H-2-064	200 OHM			
POTENTIOMETER	H-2-065	500 OHM			
POTENTIOMETER	H-2-066	1K OHM			
POTENTIOMETER	H-2-067	2K OHM			
POTENTIOMETER	H-2-068	5K OHM			
POTENTIOMETER	H-2-069	10K OHM			
POTENTIOMETER	H-2-070	20K OHM			
POTENTIOMETER	H-2-071	25K OHM			
POTENTIOMETER	H-2-072	50K OHM			
POTENTIOMETER	H-2-073	100K OHM			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
POTENTIOMETER	H-2-074	200K OHM			
POTENTIOMETER	H-2-075	250K OHM			
POTENTIOMETER	H-2-076	500K OHM			
POTENTIOMETER	H-2-077	1M OHM			
POTENTIOMETER	H-2-078				
POTENTIOMETER	H-2-079	10 OHM			
POTENTIOMETER	H-2-080	50 OHM			
POTENTIOMETER	H-2-081	100 OHM			
POTENTIOMETER	H-2-082	200 OHM			
POTENTIOMETER	H-2-083	500 OHM			
POTENTIOMETER	H-2-084	1K OHM			
POTENTIOMETER	H-2-085	2K OHM			
POTENTIOMETER	H-2-086	5K OHM			
POTENTIOMETER	H-2-087	10K OHM			
POTENTIOMETER	H-2-088	20K OHM			
POTENTIOMETER	H-2-089	25K OHM			
POTENTIOMETER	H-2-090	50K OHM			
POTENTIOMETER	H-2-091	100K OHM			
POTENTIOMETER	H-2-092	200K OHM			
POTENTIOMETER	H-2-093	250K OHM			
POTENTIOMETER	H-2-094	500K OHM			
POTENTIOMETER	H-2-095	1M OHM			
POTENTIOMETER	H-2-096	2K OHM			
POTENTIOMETER	H-2-097	50 OHM			
POTENTIOMETER	H-2-098	100 OHM			
POTENTIOMETER	H-2-099	200 OHM			
POTENTIOMETER	H-2-100	500 OHM			
POTENTIOMETER	H-2-101	1K OHM			
POTENTIOMETER	H-2-102	2K OHM			
POTENTIOMETER	H-2-103	5K OHM			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
POTENTIOMETER	H-2-104	10K OHM			
POTENTIOMETER	H-2-105	20K OHM			
POTENTIOMETER	H-2-106	25K OHM			
POTENTIOMETER	H-2-107	50K OHM			
POTENTIOMETER	H-2-108	100K OHM			
POTENTIOMETER	H-2-109	200K OHM			
POTENTIOMETER	H-2-110	500K OHM			
POTENTIOMETER	H-2-111	250K OHM			
POTENTIOMETER	H-2-112	1M OHM			
POTENTIOMETER-	H-2-113	MCP4241503EP		DYAK 7B NV SPI POT Microchip Digital Potentiometer	
POTENTIOMETER-	H-2-113A	MCP4151	MCP4151-503E/P	DIGITAL POT 256 STEP	Mouser
POWER SUPPLY	B-2-031	MAX1610		Power Supply	
PRESCALER	B-2-083	MM5369		Prescaler Frequency Divider	
PROGRAMMER	T-6-007	PG164120		PROGRAMMER MCU PICKIT 2	Digi-Key
PROM	A-3-099	N82S129F		1K BIT TTL BIPOLAR PROM	
PULSE DIALER	B-1-099	MC14408		Pulse Dialer Telephone	
PULSE DIALER	B-1-100	MC14409		Pulse Dialer Telephone	
PWM CONTROLLE	B-2-004	TL494CN		Power Control Pulse Width Modulator	
QUADRAC	B-3-091	Q4004LT		QUADRAC ISOLATED, 4 A, 400 V	Digi-Key
QUADRAC	B-3-092	Q4008LT		QUADRAC ISOLATED, 8 A, 400 V	Digi-Key
QUADRAC	B-3-093	Q4015LT		QUADRAC ISOLATED, 15 A, 400 V	Digi-Key
RAM	A-3-092	TMM4164		65,536 Word x 1 Bit Dynamic RAM	
RAM	A-3-098	AM9114		1024X4 STATIC RAM	
RAM	A-3-101	Z6104-4		General-Purpose Static RAM	
RAM	A-3-102	4264-20		64KX1 DRAM	
RAM	A-3-102A	MN41256		General Purpose Dynamic RAM	
RAM	A-3-102B	MB8264A		MOS 65536-bit Dynamic Random Access Memory	
RAM	A-3-107A	TMS4164		65,536-Bit Dynamic Random Access Memory	
RAM	B-3-046	D2816-3		2M x 16Bit x 4 Banks Dubl Data Rate Synch RAM, w/Bi-dir Data	Intel
RAM	B-3-048	LH5164D-10L		Static RAM, Dynamic RAM, Video RAM	Sharp

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RAM	B-3-051	TC5518BPL-20		Static RAM, Dynamic RAM, Video RAM	
RAM	B-3-056	CY62256-70PC		32K x 8 static RAM, 70ns	
RECEIVER	B-1-033	MC1489A	SN75189AN	Receiver Line Quad	
RECEIVER	B-2-015	DS8820N		Receiver Dual Line	
RECEIVER	B-4-007	75189	B-1-033	QUADRUPLE LINE RECEIVER	
REGISTER	A-3-015	74ALS299		8-BIT UNIVERSAL SHIFT/STORAGE REGISTERS WITH 3-STATE OUTPUTS	
REGISTER	A-3-021	74LS670		4-BY-4 REGISTER FILES WITH 3-STATE OUTPUTS	
REGISTER	A-3-050A	74F379		Quad Parallel Register with Enable	
REGISTER	A-3-066A	74C164		8-Bit Parallel-Out Serial Shift Register	
REGISTER	A-3-098A	P2102A		4-BIT SHIFT REGISTER	
REGISTER	B-4-004	74164	A-1-051	8 Bit Parallel-Out Serial Shift Register	
REGULATOR	B-1-044	LM2578N	M56AG	Regulator Switching	
REGULATOR	B-1-057	LM334Z		Current Source Adjustable 3 Terminal	
REGULATOR	B-1-058	LM336		Reference Voltage 2.5V	
REGULATOR	B-2-102	LM1084		5A Low Dropout Positive Regulator	
REGULATOR	B-2-103	LM1085		3A Low Dropout Positive Regulators	
REGULATOR	B-3-031	LM2574N-5		IC REG SIMPLE SWITCHER 8-DIP	Digi-Key
REGULATOR	B-3-031A	LM2596S-ADJ	LM2596S-ADJ/NOPB-ND	IC REG BUCK ADJ 3A TO263-5	Digi-Key
REGULATOR	B-3-032	LM723CN		IC V REG HI PREC, 14-DIP, 2-37 V, 150 ma	Digi-Key
REGULATOR	B-3-034	TPS7150QP		V Reg, LDO, 5.0 V, 500 ma, 8-DIP	Digi-Key
REGULATOR	B-3-039	LM2574HVN-12		IC REG SIMPLE SWITCHER, 12 V, .5 A, 8-DIP	Digi-Key
REGULATOR	B-3-106	PT78HT233S		REGULATOR Wide-Inpt Pos Step-Down ISR, 3.3 V out, 2 A	Mouser
REGULATOR	C-2-094	P0300EA		SIDACTOR 25V SURGE SUP	Digi-Key
RELAY	P-2-017	SSR5A	\$7.90	SPST 3-15Vdc 5A Solid State Relay	Futurlec
RESISTOR	G-1-001A			.51ohm, 5W	Yageo
RESISTOR	G-1-001B			.82ohm, 5W	Yageo
RESISTOR	G-1-001C			1ohm, 5W	Xicon
RESISTOR	G-1-002A			2ohm, 5W	Yageo
RESISTOR	G-1-002B			5ohm, 5W	Rockwood
RESISTOR	G-1-003A			20ohm, 5W	Yageo

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RESISTOR	G-1-003B			50ohm, 5W	
RESISTOR	G-1-004A			60ohm, 5W	
RESISTOR	G-1-004B			100ohm, 5W	Xicon
RESISTOR	G-1-004C			125ohm, 5W	
RESISTOR	G-1-005A			200ohm, 5W	
RESISTOR	G-1-005B			500ohm, 5W	Xicon
RESISTOR	G-1-006	0.010 Ohm 5W	15FR010E	0.010 Ohm 5 Watt Current Sense Resistor	Mouser
RESISTOR	G-1-006A			.3ohm, 5W	Yageo
RESISTOR	G-1-006B			1kohm, 5W	Xicon
RESISTOR	G-1-006C	0.020 Ohm 5W	'	0.20 Ohm 5 Watt Current Sense Resistor	Mouser
RESISTOR	G-1-007			5kohm, 5W	Xicon
RESISTOR	G-1-008A			10kohm, 5W	Xicon
RESISTOR	G-1-008B			15kohm, 5W	Micron
RESISTOR	G-1-010				
RESISTOR	G-1-011A			1ohm, 7W	
RESISTOR	G-1-011B			2.2ohm, 7W	
RESISTOR	G-1-011C			3.3ohm, 7W	
RESISTOR	G-1-012A			3.9ohm, 7W	
RESISTOR	G-1-012B			4.7ohm, 7W	
RESISTOR	G-1-012C			6.8ohm, 7W	
RESISTOR	G-1-013			22ohm, 7W	
RESISTOR	G-1-014				
RESISTOR	G-1-015				
RESISTOR	G-1-016A	1.0W-10-ND		1ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-016B	1.1W-10-ND		1.1ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-016C	1.2W-10-ND		1.2ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-016D	1.3W-10-ND		1.3ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-017A	1.5W-10-ND		1.5ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-017B	1.6W-10-ND		1.6ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-017C	1.8W-10-ND		1.8ohm 10W 5% wirewound	Digi-key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	G-1-018A	2.0W-10-ND		2ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-018B	2.2W-10-ND		2.2ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-018C	2.4W-10-ND		2.4ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-018D	2.7W-10-ND		2.7ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-019A	3.0W-10-ND		3ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-019B	3.3W-10-ND		3.3ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-019C	3.6W-10-ND		3.6ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-019D	3.9W-10-ND		3.9ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-020A	4.3W-10-ND		4.3ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-020B	4.7W-10-ND		4.7ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-020C	5.1W-10-ND		5.1ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-020D	5.6W-10-ND		5.6ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-021A	6.2W-10-ND		6.2ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-021B	6.8W-10-ND		6.8ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-021C	7.5W-10-ND		7.5ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-021D	8.2W-10-ND		8.2ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-022A	9.1W-10-ND		9.1ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-022B	10W-10-ND		10ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-022C	11W-10-ND		11ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-022D	12W-10-ND		12ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-023A	13W-10-ND		13ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-023B	15W-10-ND		15ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-023C	16W-10-ND		16ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-023D	18W-10-ND		18ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-024A	20W-10-ND		20ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-024B	22W-10-ND		22ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-024C	24W-10-ND		24ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-024D	27W-10-ND		27ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-025A	30W-10-ND		30ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-025B	33W-10-ND		33ohm 10W 5% wirewound	Digi-key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	G-1-025C	36W-10-ND		36ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-025D	39W-10-ND		39ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-026A	43W-10-ND		43ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-026B	47W-10-ND		47ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-026C	51W-10-ND		51ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-026D	56W-10-ND		56ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-027A	62W-10-ND		62ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-027B	68W-10-ND		68ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-027C	75W-10-ND		75ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-027D	82W-10-ND		82ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-028A	91W-10-ND		91ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-028B	100W-10-ND		100ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-028C	110W-10-ND		110ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-028D	120W-10-ND		120ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-029A	130W-10-ND		130ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-029B	150W-10-ND		150ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-029C	160W-10-ND		160ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-029D	180W-10-ND		180ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-030A	200W-10-ND		200ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-030B	220W-10-ND		220ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-030C	240W-10-ND		240ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-030D			250ohm, 10W	
RESISTOR	G-1-030E	270W-10-ND		270ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-031A	300W-10-ND		300ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-031B	330W-10-ND		330ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-031C			350ohm, 10W, 10%	
RESISTOR	G-1-031D	360W-10-ND		360ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-031E	390W-10-ND		390ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-032A	430W-10-ND		430ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-032B	470W-10-ND		470ohm 10W 5% wirewound	Digi-key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	G-1-032C	500W-10-ND		500ohm, 10W, 10%	
RESISTOR	G-1-032D	510W-10-ND		510ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-032E	560W-10-ND		560ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-033A	620W-10-ND		620ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-033B	680W-10-ND		680ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-033C	700W-10-ND		700ohm, 10W, 10%	
RESISTOR	G-1-033D	750W-10-ND		750ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-033E	820W-10-ND		820ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-034A	910W-10-ND		910ohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-034B	1.0KW-10-ND		1kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-034C	1.1KW-10-ND		1.1kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-034D	1.2KW-10-ND		1.2kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-035A	1.3KW-10-ND		1.3kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-035B	1.5KW-10-ND		1.5kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-035C	1.6KW-10-ND		1.6kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-035D	1.8KW-10-ND		1.8kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-036A	2.0KW-10-ND		2kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-036B	2.2KW-10-ND		2.2kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-036C	2.250KW-10-ND		2250ohm, 10W	
RESISTOR	G-1-036D	2.4KW-10-ND		2.4kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-036E	2.7KW-10-ND		2.7kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-037	3.0KW-10-ND		3kohm 10W 5% wirewound	Digi-key
RESISTOR	G-1-038A			3509ohm, 10W	
RESISTOR	G-1-038B			6kohm, 10W, 10%	
RESISTOR	G-1-038C			7.5kohm, 10W, 10%	
RESISTOR	G-1-039A			8.2kohm, 10W, 10%	
RESISTOR	G-1-039B			10kohm, 10W, 10%	
RESISTOR	G-1-039C			10.2kohm, 1%	
RESISTOR	G-1-040A			20kohm, 10W, 10%	
RESISTOR	G-1-040B			38.3kohm	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	G-1-041A			40kohm, 10W	
RESISTOR	G-1-041B			48.7kohm	
RESISTOR	G-1-041C			60kohm, 10W, 1%	
RESISTOR	G-1-041D			887kohm, 2W, 5%	
RESISTOR	G-1-042				
RESISTOR	G-1-043				
RESISTOR	G-1-044				
RESISTOR	G-1-045				
RESISTOR	G-1-046A			3ohm, 25W, 10%	
RESISTOR	G-1-046B			7.5ohm, 25W, 1%	
RESISTOR	G-1-046C	TMC-25-100-1%		Res Alum Housed 100ohm 25W 1%	Digi-key
RESISTOR	G-1-046D			806ohm, 20W, 1%	
RESISTOR	G-1-047A			1.96ohm	
RESISTOR	G-1-047B			22ohm	
RESISTOR	G-1-047C			68.1ohm	
RESISTOR	G-1-047D			100ohm	
RESISTOR	G-1-047E			1.2kohm	
RESISTOR	G-1-047F			5.36kohm	
RESISTOR	G-1-048A			289.5ohm	
RESISTOR	G-1-048B			316ohm, 1W, 1%	
RESISTOR	G-1-048C			1470ohm, .6W, 1%	
RESISTOR	G-1-048D			40.2kohm	
RESISTOR	G-1-049				
RESISTOR	G-1-050				
RESISTOR	G-2-D	1.0-3.0-10 ND		1.0 Ohm thru 3.0 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-E	3.3-9.1-10-ND		3.3 Ohm thru 9.1 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-F	10.0-30.0-10-ND		10.0 Ohm thru 30.0 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-G	33.0-91.0-10-ND		33.0 Ohm thru 91.0 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-H	330.0-910.0-10-ND		330.0 Ohm thru 910.0 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-H	100.0-300.0-10-ND		100.0 Ohm thru 300.0 Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	G-2-I 10W	1.0K-3.0 K-ND		1.0K Ohm thru 3.0K Ohm 10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-J 10W			10 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-K 5W	0.3-0.91 Ohm 5W		0.3Ohm-0.91 Ohm 5 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-2-L 5W	1.0 - 9.1 Ohm 5W		1.0 Ohm-9.1 Ohm 5 Watt 5% Resistor Kit-2Each	Digi-Key
RESISTOR	G-3	0.1-18M Ohm	RS102-ND	0.1-18 M Ohm 2 Watt 5% KIT	Digi-Key
RESISTOR	H-1-001	1.0/1.1 OHM 1/4W			
RESISTOR	H-1-002	1.2 OHM 1/4W			
RESISTOR	H-1-003	1.3 OHM 1/4W			
RESISTOR	H-1-004	1.5 OHM 1/4W			
RESISTOR	H-1-005	1.6 OHM 1/4W			
RESISTOR	H-1-006	1.8 OHM 1/4W			
RESISTOR	H-1-007	2.0 OHM 1/4W			
RESISTOR	H-1-008	2.2 OHM 1/4W			
RESISTOR	H-1-009	2.4 OHM 1/4W			
RESISTOR	H-1-010	2.7 OHM 1/4W			
RESISTOR	H-1-011	3.0 OHM 1/4W			
RESISTOR	H-1-012	3.3 OHM 1/4W			
RESISTOR	H-1-013	3.6 OHM 1/4W			
RESISTOR	H-1-014	3.9 OHM 1/4W			
RESISTOR	H-1-015	4.3 OHM 1/4W			
RESISTOR	H-1-016	4.7 OHM 1/4W			
RESISTOR	H-1-017	5.1/5.2 OHM 1/4W			
RESISTOR	H-1-018	5.6 OHM 1/4W			
RESISTOR	H-1-019	6.2 OHM 1/4W			
RESISTOR	H-1-020	6.8 OHM 1/4W			
RESISTOR	H-1-021	7.5/9.1 OHM 1/4W			
RESISTOR	H-1-022	8.2 OHM 1/4W			
RESISTOR	H-1-023	10 OHM 1/4W			
RESISTOR	H-1-024	11 OHM 1/4W			
RESISTOR	H-1-025	12 OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-1-026	13 OHM 1/4W			
RESISTOR	H-1-027	15 OHM 1/4W			
RESISTOR	H-1-028	16 OHM 1/4W			
RESISTOR	H-1-029	18 OHM 1/4W			
RESISTOR	H-1-030	20 OHM 1/4W			
RESISTOR	H-1-031	22 OHM 1/4W			
RESISTOR	H-1-032	24 OHM 1/4W			
RESISTOR	H-1-033	27 OHM 1/4W			
RESISTOR	H-1-034	30 OHM 1/4W			
RESISTOR	H-1-035	33 OHM 1/4W			
RESISTOR	H-1-036	36 OHM 1/4W			
RESISTOR	H-1-037	39 OHM 1/4W			
RESISTOR	H-1-038	43 OHM 1/4W			
RESISTOR	H-1-039	47 OHM 1/4W			
RESISTOR	H-1-040	51 OHM 1/4W			
RESISTOR	H-1-041	56 OHM 1/4W			
RESISTOR	H-1-042	62 OHM 1/4W			
RESISTOR	H-1-043	68 OHM 1/4W			
RESISTOR	H-1-044	75 OHM 1/4W			
RESISTOR	H-1-045	82 OHM 1/4W			
RESISTOR	H-1-046	91 OHM 1/4W			
RESISTOR	H-1-047	100 OHM 1/4W			
RESISTOR	H-1-048	110 OHM 1/4W			
RESISTOR	H-1-049	120 OHM 1/4W			
RESISTOR	H-1-050	130 OHM 1/4W			
RESISTOR	H-1-051	150 OHM 1/4W			
RESISTOR	H-1-052	160 OHM 1/4W			
RESISTOR	H-1-053	180 OHM 1/4W			
RESISTOR	H-1-054	200 OHM 1/4W			
RESISTOR	H-1-055	220 OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-1-056	240 OHM 1/4W			
RESISTOR	H-1-057	270 OHM 1/4W			
RESISTOR	H-1-058	300 OHM 1/4W			
RESISTOR	H-1-059	330 OHM 1/4W			
RESISTOR	H-1-060	360 OHM 1/4W			
RESISTOR	H-1-061	390 OHM 1/4W			
RESISTOR	H-1-062	430 OHM 1/4W			
RESISTOR	H-1-063	470 OHM 1/4W			
RESISTOR	H-1-064	510 OHM 1/4W			
RESISTOR	H-1-065	560 OHM 1/4W			
RESISTOR	H-1-066	620 OHM 1/4W			
RESISTOR	H-1-067	680 OHM 1/4W			
RESISTOR	H-1-068	750 OHM 1/4W			
RESISTOR	H-1-069	820 OHM 1/4W			
RESISTOR	H-1-070	910 OHM 1/4W			
RESISTOR	H-1-071	1.0K OHM 1/4W			
RESISTOR	H-1-072	1.1K OHM 1/4W			
RESISTOR	H-1-073	1.2K OHM 1/4W			
RESISTOR	H-1-074	1.3K OHM 1/4W			
RESISTOR	H-1-075	1.5K OHM 1/4W			
RESISTOR	H-1-076	1.6K OHM 1/4W			
RESISTOR	H-1-077	1.8K OHM 1/4W			
RESISTOR	H-1-078	2.0K OHM 1/4W			
RESISTOR	H-1-079	2.2K OHM 1/4W			
RESISTOR	H-1-080	2.4K OHM 1/4W			
RESISTOR	H-1-081	2.7K OHM 1/4W			
RESISTOR	H-1-082	3.0K OHM 1/4W			
RESISTOR	H-1-083	3.3K OHM 1/4W			
RESISTOR	H-1-084	3.6K OHM 1/4W			
RESISTOR	H-1-085	3.9K OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-1-086	4.3K OHM 1/4W			
RESISTOR	H-1-087	4.7K OHM 1/4W			
RESISTOR	H-1-088	5.1K OHM 1/4W			
RESISTOR	H-1-089	5.6K OHM 1/4W			
RESISTOR	H-1-090	6.2K OHM 1/4W			
RESISTOR	H-1-091	6.8K OHM 1/4W			
RESISTOR	H-1-092	7.5K OHM 1/4W			
RESISTOR	H-1-093	8.2K OHM 1/4W			
RESISTOR	H-1-094	9.1K OHM 1/4W			
RESISTOR	H-1-095	10K OHM 1/4W			
RESISTOR	H-1-096	11K OHM 1/4W			
RESISTOR	H-1-097	12K OHM 1/4W			
RESISTOR	H-1-098	13K OHM 1/4W			
RESISTOR	H-1-099	15K OHM 1/4W			
RESISTOR	H-1-100	16K OHM 1/4W			
RESISTOR	H-1-101	18K OHM 1/4W			
RESISTOR	H-1-102	20K OHM 1/4W			
RESISTOR	H-1-103	22K OHM 1/4W			
RESISTOR	H-1-104	24K OHM 1/4W			
RESISTOR	H-1-105	27K OHM 1/4W			
RESISTOR	H-1-106	30K OHM 1/4W			
RESISTOR	H-1-107	33K OHM 1/4W			
RESISTOR	H-1-108	36K OHM 1/4W			
RESISTOR	H-1-109	39K OHM 1/4W			
RESISTOR	H-1-110	43K OHM 1/4W			
RESISTOR	H-1-111	47K OHM 1/4W			
RESISTOR	H-1-112	51K OHM 1/4W			
RESISTOR	H-1-113	56K OHM 1/4W			
RESISTOR	H-1-114	62K OHM 1/4W			
RESISTOR	H-1-115	68K OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-1-116	75K OHM 1/4W			
RESISTOR	H-1-117	82K OHM 1/4W			
RESISTOR	H-1-118	91K OHM 1/4W			
RESISTOR	H-1-119	100K OHM 1/4W			
RESISTOR	H-1-120	110K OHM 1/4W			
RESISTOR	H-2-001	120K OHM 1/4W			
RESISTOR	H-2-002	130K OHM 1/4W			
RESISTOR	H-2-003	150K OHM 1/4W			
RESISTOR	H-2-004	160K OHM 1/4W			
RESISTOR	H-2-005	180K OHM 1/4W			
RESISTOR	H-2-006	200K OHM 1/4W			
RESISTOR	H-2-007	220K OHM 1/4W			
RESISTOR	H-2-008	240K OHM 1/4W			
RESISTOR	H-2-009	270K OHM 1/4W			
RESISTOR	H-2-010	300K OHM 1/4W			
RESISTOR	H-2-011	330K OHM 1/4W			
RESISTOR	H-2-012	360K OHM 1/4W			
RESISTOR	H-2-013	390K OHM 1/4W			
RESISTOR	H-2-014	430K OHM 1/4W			
RESISTOR	H-2-015	470K OHM 1/4W			
RESISTOR	H-2-016	510K OHM 1/4W			
RESISTOR	H-2-017	560K OHM 1/4W			
RESISTOR	H-2-018	620K OHM 1/4W			
RESISTOR	H-2-019	680K OHM 1/4W			
RESISTOR	H-2-020	750K OHM 1/4W			
RESISTOR	H-2-021	820K OHM 1/4W			
RESISTOR	H-2-022	910K OHM 1/4W			
RESISTOR	H-2-023	1.0M OHM 1/4W			
RESISTOR	H-2-024	1.1M OHM 1/4W			
RESISTOR	H-2-025	1.2M OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-2-026	1.3M OHM 1/4W			
RESISTOR	H-2-027	1.5M/1.6M OHM 1/			
RESISTOR	H-2-028	1.8M OHM 1/4W			
RESISTOR	H-2-029	2.0M OHM 1/4W			
RESISTOR	H-2-030	2.2M/2.4M OHM 1/			
RESISTOR	H-2-031	2.7M OHM 1/4W			
RESISTOR	H-2-032	3.0M OHM 1/4W			
RESISTOR	H-2-033	3.3M OHM 1/4W			
RESISTOR	H-2-034	3.6M OHM 1/4W			
RESISTOR	H-2-035	3.9M OHM 1/4W			
RESISTOR	H-2-036	4.3M OHM 1/4W			
RESISTOR	H-2-037	4.7M OHM 1/4W			
RESISTOR	H-2-038	6.8M/8.2M OHM 1/			
RESISTOR	H-2-039	10M OHM 1/4W			
RESISTOR	H-2-040	12M/18M OHM 1/4			
RESISTOR	H-2-041	22M OHM 1/4W			
RESISTOR	H-2-042	25M OHM 1/4W			
RESISTOR	H-3-001	0.1/0.12 OHM 1/5-2			
RESISTOR	H-3-002	0.3/0.35 OHM 1/5-2			
RESISTOR	H-3-003	0.80/1.0 OHM 1/5-2			
RESISTOR	H-3-004	1.1/1.3 OHM 1/5-2			
RESISTOR	H-3-005	1.8/2.0 OHM 1/5-2			
RESISTOR	H-3-006	2.2/2.7 OHM 1/5-2			
RESISTOR	H-3-007	3.3/3.6 OHM 1/5-2			
RESISTOR	H-3-008	3.9/4.7 OHM 1/5-2			
RESISTOR	H-3-009	5.1/5.6 OHM 1/5-2			
RESISTOR	H-3-010	6.0/6.8 OHM 1/5-2			
RESISTOR	H-3-011	7.5/8.2 OHM 1/5-2			
RESISTOR	H-3-012	9.75 OHM 1/5-2W			
RESISTOR	H-3-013	10 OHM 1/5-2W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-3-014	10 OHM 1/5-2W			
RESISTOR	H-3-015	11/12 OHM 1/5-2W			
RESISTOR	H-3-016	13/15 OHM 1/5-2W			
RESISTOR	H-3-017	16/18 OHM 1/5-2W			
RESISTOR	H-3-018	20/24 OHM 1/5-2W			
RESISTOR	H-3-019	22 OHM 1/5-2W			
RESISTOR	H-3-020	27/28 OHM 1/5-2W			
RESISTOR	H-3-021	30/31 OHM 1/5-2W			
RESISTOR	H-3-022	33 OHM 1/5-2W			
RESISTOR	H-3-023	36/39 OHM 1/5-2W			
RESISTOR	H-3-024	43/47 OHM 1/5-2W			
RESISTOR	H-3-025	49/50 OHM 1/5-2W			
RESISTOR	H-3-026	51/52 OHM 1/5-2W			
RESISTOR	H-3-027	56/59 OHM 1/5-2W			
RESISTOR	H-3-028	62/65 OHM 1/5-2W			
RESISTOR	H-3-029	66/68 OHM 1/5-2W			
RESISTOR	H-3-030	74/75 OHM 1/5-2W			
RESISTOR	H-3-031	82/89 OHM 1/5-2W			
RESISTOR	H-3-032	91 OHM 1/5-2W			
RESISTOR	H-3-033	95/97 OHM 1/5-2W			
RESISTOR	H-3-034	100 OHM 1/5-2W			
RESISTOR	H-3-035	120 OHM 1/5-2W			
RESISTOR	H-3-036	130/133 OHM 1/5-2			
RESISTOR	H-3-037	134/138 OHM 1/5-2			
RESISTOR	H-3-038	138/147 OHM 1/5-2			
RESISTOR	H-3-039	150/154 OHM 1/5-2			
RESISTOR	H-3-040	160/162 OHM 1/5-2			
RESISTOR	H-3-041	172 OHM 1/5-2W			
RESISTOR	H-3-042	180/196 OHM 1/5-2			
RESISTOR	H-3-043	200 OHM 1/5-2W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-3-044	220/240 OHM 1/5-2			
RESISTOR	H-3-045	250/270 OHM 1/5-2			
RESISTOR	H-3-046	300/316 OHM 1/5-2			
RESISTOR	H-3-047	320/330 OHM 1/5-2			
RESISTOR	H-3-048	338/360 OHM 1/5-2			
RESISTOR	H-3-049	390 OHM 1/5-2W			
RESISTOR	H-3-050	400/412 OHM 1/5-2			
RESISTOR	H-3-051	420/430 OHM 1/5-2			
RESISTOR	H-3-052	453/464 OHM 1/5-2			
RESISTOR	H-3-053	470 OHM 1/5-2W			
RESISTOR	H-3-054	510/520 OHM 1/5-2			
RESISTOR	H-3-055	560 OHM 1/5-2W			
RESISTOR	H-3-056	620/650 OHM 1/5-2			
RESISTOR	H-3-057	680 OHM 1/5-2W			
RESISTOR	H-3-058	750 OHM 1/5-2W			
RESISTOR	H-3-059	750 OHM 1/5-2W			
RESISTOR	H-3-060	806/820 OHM 1/5-2			
RESISTOR	H-3-061	825/875 OHM 1/5-2			
RESISTOR	H-3-062	910 OHM 1/5-2W			
RESISTOR	H-3-063	1K OHM 1/5-2W			
RESISTOR	H-3-064	1.1K/1.2K OHM 1/5			
RESISTOR	H-3-065	1.27/1.3K OHM 1/5			
RESISTOR	H-3-066	1.5K OHM 1/5-2W			
RESISTOR	H-3-067	1.6K OHM 1/5-2W			
RESISTOR	H-3-068	1.72K OHM 1/5-2W			
RESISTOR	H-3-069	1.8K OHM 1/5-2W			
RESISTOR	H-3-070	2K OHM 1/5-2W			
RESISTOR	H-3-071	2.2K OHM 1/5-2W			
RESISTOR	H-3-072	2.15/2.3K OHM 1/5			
RESISTOR	H-3-073	2.4/2.5K OHM 1/5-			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-3-074	2.7K OHM 1/5-2W			
RESISTOR	H-3-075	3K OHM 1/5-2W			
RESISTOR	H-3-076	3.3K OHM 1/5-2W			
RESISTOR	H-3-077	3.6/3.9K OHM 1/5-			
RESISTOR	H-3-078	4.2/4.3K OHM 1/5-			
RESISTOR	H-3-079	4.4/4.6K OHM 1/5-			
RESISTOR	H-3-080	4.7K OHM 1/5-2W			
RESISTOR	H-3-081	5.1/5.5K OHM 1/5-			
RESISTOR	H-3-082	5.6K OHM 1/5-2W			
RESISTOR	H-3-083	6.8K OHM 1/5-2W			
RESISTOR	H-3-084	7.15/7.5K OHM 1/5			
RESISTOR	H-3-085	7.5K OHM 1/5-2W			
RESISTOR	H-3-086	7.8/8.2K OHM 1/5-			
RESISTOR	H-3-087	9.1K OHM 1/5-2W			
RESISTOR	H-3-088	10K OHM 1/5-2W			
RESISTOR	H-3-089	1K OHM 1/5-2W			
RESISTOR	H-3-090	12/.13K OHM 1/5-2			
RESISTOR	H-3-091	15K OHM 1/5-2W			
RESISTOR	H-3-092	16/18K OHM 1/5-2			
RESISTOR	H-3-093	19K OHM 1/5-2W			
RESISTOR	H-3-094	20/21K OHM 1/5-2			
RESISTOR	H-3-095	22K OHM 1/5-2W			
RESISTOR	H-3-096	24K OHM 1/5-2W			
RESISTOR	H-3-097	25/26K OHM 1/5-2			
RESISTOR	H-3-098	27K OHM 1/5-2W			
RESISTOR	H-3-099	30/33K OHM 1/5-2			
RESISTOR	H-3-100	36/39K OHM 1/5-2			
RESISTOR	H-3-101	43K OHM 1/5-2W			
RESISTOR	H-3-102	47K OHM 1/5-2W			
RESISTOR	H-3-103	51K OHM 1/5-2W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-3-104	56K OHM 1/5-2W			
RESISTOR	H-3-105	62K OHM 1/5-2W			
RESISTOR	H-3-106	68K OHM 1/5-2W			
RESISTOR	H-3-107	75K OHM 1/5-2W			
RESISTOR	H-3-108	82K OHM 1/5-2W			
RESISTOR	H-3-109	91K OHM 1/5-2W			
RESISTOR	H-3-110	100K OHM 1/5-2W			
RESISTOR	H-3-111	110/120K OHM 1/5-			
RESISTOR	H-3-112	130/133K OHM 1/5-			
RESISTOR	H-3-113	150K OHM 1/5-2W			
RESISTOR	H-3-114	160/180K OHM 1/5-			
RESISTOR	H-3-115	200/215K OHM 1/5-			
RESISTOR	H-3-116	220K OHM 1/5-2W			
RESISTOR	H-3-117	240/250K OHM 1/5-			
RESISTOR	H-3-118	270K OHM 1/5-2W			
RESISTOR	H-3-119	300/330K OHM 1/5-			
RESISTOR	H-3-120	360/390K OHM 1/5-			
RESISTOR	H-4-001	430/475K OHM 1/5-			
RESISTOR	H-4-002	470K OHM 1/5-2W			
RESISTOR	H-4-003	560/620K OHM 1/5-			
RESISTOR	H-4-004	680/750K OHM 1/5-			
RESISTOR	H-4-005	820/910K OHM 1/5-			
RESISTOR	H-4-006	1.0M OHM 1/5-2W			
RESISTOR	H-4-007	1.1/1.2M OHM 1/5-			
RESISTOR	H-4-008	1.3/1.5M OHM 1/5-			
RESISTOR	H-4-009	1.8/2.0M OHM 1/5-			
RESISTOR	H-4-010	2.2/2.7M OHM 1/5-			
RESISTOR	H-4-011	3.0/3.3M OHM 1/5-			
RESISTOR	H-4-012	3.9/4.7M OHM 1/5-			
RESISTOR	H-4-013	5.1/5.6M OHM 1/5-			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
RESISTOR	H-4-014	6.2/6.8M OHM 1/5-			
RESISTOR	H-4-015	7.0/8.2M OHM 1/5-			
RESISTOR	H-4-016	10/15M OHM 1/5-2			
RESISTOR	H-4-017	18M OHM 1/5-2W			
RESISTOR ARRAY	H-2-056	13S10,9100	770-101-R100P-ND	RES NET 9 RES 100 OHM 10 PIN	Electronic Express
RESISTOR ARRAY	H-2-057	13S10,91K	770-101-R1KP-ND	RES NET 9 RES 1K OHM 10 PIN	Electronic Express
RESISTOR ARRAY	H-2-058	13S10,92.2K	770-101-R2.2KP-ND	RES NET 9 RES 2.2K OHM 10 PIN	Electronic Express
RESISTOR ARRAY	H-2-059	13S10,910K	770-101-R10KP-ND	RES NET 9 RES 10K OHM 10 PIN	Electronic Express
RESISTOR ARRAY	H-2-060	13S10,9100K	770-101-R100KP-ND	RES NET 9 RES 100K OHM 10 PIN	Electronic Express
RESISTOR- Current	G-1-0010	15FR010E	'	0.010 Ohm 5 Watt Current Sense Resistor	Mouser
RESISTOR- Current	G-1-0010A	15FR010E	'	0.010 Ohm 5 Watt Current Sense Resistor	Mouser
RESISTOR- Current	G-1-009	15FR150		.15Ohm 5W Watt Current Sense Resistor	Digi-Key
RESISTOR- Current	G-1-009A	15FR200		.20 Ohm 5W Watt Current Sense Resistor	Digi-Key
RESISTOR- Current	G-1-009B	15FR250		.25 Ohm 5W Watt Current Sense Resistor	Digi-Key
RESISTOR-POWER	DD-6-001			1-125 OHM	
RESISTOR-POWER	DD-6-002			126-250 OHM	
RESISTOR-POWER	DD-6-003			251-500 OHM	
RESISTOR-POWER	DD-6-004			510-1000 OHM	
RESISTOR-POWER	DD-6-005			1001+ OHM	
RESISTOR-POWER	DD-6-006			MISC LARGE POWER RESISTORS	
ROM	B-4-021	MBM2716		UV Erasable 16384 Bit ROM	
RS232	B-1-023	DS1489N	MC1489P	Received Line RS232 Single Ended DTE/DTC Interface	
RS232	B-3-021	LT1781CN		IC DVR/RCVR 5V RS232 DUAL 16-DIP	Digi-Key
SCHMITT TRIGGER	A-3-003	MC14584BCP		Hex Schmitt Trigger 14DIP	Digi-Key
SCHMITT TRIGGER	A-3-118B	MC14584BCP		Hex Schmitt Trigger 14DIP	Digi-Key
SCHMITT TRIGGER	B-4-015	CD40106		CMOS HEX SCHMITT TRIGGERS	
SCHOTTKY DIODE	C-2-047	STPS30L30CT	497-2756-5-ND	Diode, Schottky, 30 V, 15 A TO220AB	Digi-Key
SCHOTTKY DIODE	C-2-067	1N23EMR	NTE112	Si, Small Signal Schottky Diode, 5V, 30mA, 60mA	NTE
SCHOTTKY DIODE	C-2-069	1N5819-E3/51		Diode, Schottky, 40 V, 1 A	Digi-Key
SCHOTTKY DIODE	C-2-071	MBR1100		Diode, Schottky, 100 V, 1 A	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SCHOTTKY DIODE	C-3-054	SB530		Diode, Schottky, 5 A, 30 V	Digi-Key
SCHOTTKY DIODE	C-3-094	1N5817		Diode, Schottky, 1 A, 20 V	Digi-Key
SCHOTTKY DIODE	C-3-095	1N5818		Diode, Schottky, 1 A, 30 V	Digi-Key
SCHOTTKY DIODE	C-3-096	1N5821		Diode, Schottky, 3 A, 30 V	Digi-Key
SCHOTTKY DIODE	C-3-115	1N6263		Diode, Schottky, 15 ma, 60 V	Digi-Key
SCHOTTKY DIODE	C-3-115A	CDSH		100V 100mA Rec- Schottky	Mouser
SCR	C-1-009	2N1849	NTE5507	SCR-400 VRM, 16 A	NTE
SCR	C-2-036	S106B1	NTE5455	SCR, Sensitive Gate, 4 A	NTE
SCR	C-2-036A	P0118MA SAL3		IC SCR 0.8A 600V TO92	Digi-Key
SCR	C-2-037A	MCR12N	MCR12NOS-ND	THYRISTOR SCR 12A 800V TO220AB	Digi-Key
SCR	C-2-092	TIC47	NTE5404	SCR, .8 Amp Sensitive Gate	NTE
SENSOR	B-2-100	DS1620	DDS1621	Sensor Digital Thermometer & Thermostat	
SENSOR	B-2-100A	LM35CH/NOPB	LM35CH-ND	IC SENSOR PREC CENT TEMP TO-46	Digi-Key
SENSOR	B-3-004	QT60040-IS		SENSOR IC MATRX TOUCH 4CH 14SOIC	Digi-Key
SENSOR	B-3-006	TQ1		Sensor Touch Charge Transfer	
SENSOR	B-3-030	HI400/1		Magnetic Sensor, 4-20 V	
SENSOR	H-2-000			RFID SENSOR	
SENSOR	H-2-000			PRESSURE SENSOR	FlexiForce
SENSOR	H-2-053			FLEX RESISTORS 0-90 DEG	
SENSOR	H-2-054	410-015A3L	842624AA Qty 2	PRESSURE TRANSDUCERS NOVA SENSOR	
SENSOR -Hall Effec	C-3-101	480-2005-ND	95A501	SENSOR SS HALL EFFECT RATIONOMETRC	Honeywell
SMD	R-3-001	LT1073CS8-5#PBF		IC DC/DC Converter 5V FXD 8-SOIC	Digi-Key
SMD	R-3-002	SN74LS393D	595-SN74LS393D	Dual 4 Bit Binary TI Logic Counter	Mouser Electronics
SMD	R-3-003	SN74HCT74D	595-SN74HCT74D	Dual W/Clear Preset Flip Flop	Mouser Electronics
SMD	R-3-004	LM224D	595-LM224D	Quad Operational Amplifier	Mouser Electronics
SMD	R-3-005	TC7662BEOA	579-TC7662BEoA	High Voltage Convert.-DC-DC-Charge pump-Inv	Mouser Electronics
SMD	R-3-006	TPS60130PWP	TC7662BEoA	IC 5V 0.3A DC/DC CONV 20-HTSSOP	Digi-Key
SMD	R-3-007	NJM13700M	513-NJM13700M	Dual NJR Operational Amplifier-Transconducting	Mouser Electronics
SMD	R-3-008	L7805ABD2T	511-L7805ABD2T	5.0 V 1.0A Positive ST Voltage Regualtor	Mouser Electronics
SMD	R-3-008A	TPS77301DGK	296-8108-5-ND	IC REG LDO ADJ 250mA 8MSOP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD	R-3-009	SN74HC20D	70C4339	Dual 4 Input NAND gate 14-SOIC	newarkinone.com
SMD	R-3-010	LM555CM-ND		IC Timer Single Prec 8-SOP	Digi-Key
SMD	R-3-011	SN7417DR		Hex Buffer/Driver with Open Collector HV Output	questcomp.com
SMD	R-3-012	MAX4020ESD	MAX4020ESD-ND	IC Op amp Quad R-R HS 14-SOIC	Digi-Key
SMD	R-3-013	IRLR3714ZCTL	IRLR3714ZCTL	HEX/MOS N-CH 20V 37A D-PAK	Digi-Key
SMD	R-3-014	CD4081BM		AND- Gate DIP- 14 CMOS Logic- -0.5 to +20V 100mW	Texas Instruments
SMD	R-3-015	LM3578AM		IC Switching Regulator S08	Digi-Key
SMD	R-3-016	BZX84C5V6DICT		DIODE 5.6 V Zener TO236/SOT23	Digi-Key
SMD	R-3-017	CDSF4148	641-1004-1-ND	Diode Switching 75V 150mA 1005	Digi-Key
SMD	R-3-018	FLZ3V3ACT	FLZ3V3A	Diode Zener 500mW 3.3V SOD-80	Digi-Key
SMD	R-3-019	DF04S/271403-B		Rectifier Bridge 1Amp 400V DFS	Digi-Key
SMD	R-3-019A	TUSB3410VF	296-12699-ND	IC CONV SERIAL-TO-USB 32 LQFP	
SMD	R-3-019B	IRMD26310DJ 3-		3 Phase Gate Driver IC Reference Design	
SMD	R-3-020	DS1302Z	DS1302Z	IC Timekeeper T-Charge 8-SOIC	Digi-Key
SMD	R-3-021	BAV74ZX	BAV74	Dual Diode Common C SMD SOT23	Digi-Key
SMD	R-3-022	BAW56ZX	BAW56	Dual Diode Common A SMD SOT23	Digi-Key
SMD	R-3-023	MBRX140TPMSCT	MBRX140-TP	Diode Schottky 40V 1A SOD123	Digi-Key
SMD	R-3-024	BAV99ZX	BAV99	Dual Diode IN Series SMD SOT23	Digi-Key
SMD	R-3-025	TPS60501DGS	TPS60501DGS	IC CHRG PUMP STPDWN 250MA 10MSOP	Digi-Key
SMD	R-3-026	RC4580IDR	RC4580IDR	IC Dual Audio OP Amp 8-SOIC	Digi-Key
SMD	R-3-027	TPS60502GDS	TPS60502DGS	IC CHRG PUMP STPDWN 250MA 10MSOP	Digi-Key
SMD	R-3-028	BCX71KCT-ND	BCX71K	TRANS PNP 45V SMD SOT23	Digi-Key
SMD	R-3-029	BCX70KCT-ND	BCX70K	TRANS NPN 45V SMD SOT23	Digi-Key
SMD	R-3-030	LTC4412ES6-ND	LTC4412ES6	IC CTRLR Low Loss PWRPATH SOT23-6	Digi-Key
SMD	R-3-031	ATF22V10B	ATF22V10B	High- Performance EE PLD	Digi-Key
SMD	R-3-032	LM556CM		Dual Timer	Digi-Key
SMD	R-3-033	OPA660AU	OPA660AU	WIDEBAND OP AMP & BUFFER	Digi-Key
SMD	R-3-034	VCA2613Y/250	VCA2613Y/250	Dual Variable Gain Amplifier	Digi-Key
SMD	R-3-035	TPA0202PWPR	TPA0202PWPR	Stereo 2W Audio Amp	Digi-Key
SMD	R-3-035	TPA0202PWPR	TPA0202PWPR	Stereo 2W Audio Amp	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD	R-3-036	TPA1517DWPR	TPA1517DWPR	Audio Amplifier	Digi-Key
SMD	R-3-037	LTST-C170TBKT	160-1579-1-ND	LED BLUE CLEAR 0805 SMD	Digi-Key
SMD	R-3-038	160-1414-1-ND		LED GREEN CLEAR 0805 SMD	Digi-Key
SMD	R-3-038A	L71508CT-ND		LED Green Clear 560nm 0805 SMD	Digi-Key
SMD	R-3-039	LTST-C170TRKT	160-1415-1-ND	LED SUPER RED CLEAR 0805 SMD	Digi-Key
SMD	R-3-040	2.1v Zener	2.1 V Zener	2.1 V Zener	Digi-Key
SMD	R-3-041	NJM2072M		Power & Control Sensor ICs .9-7V .55mA -36dB	
SMD	R-3-042	HMC287MS8		GaAs MMIC Low Noise Amplifier w/AGC, 2.3-2.5GHz	Hittite
SMD	R-3-043	LMV324IPT	497-4944-1	IC Op AMP QUAD R-R LP I/O 14-TSS	Digi-Key
SMD	R-3-044	LMV3581PWR	296-9572-1	IC DUAL LV R-R OPAMP 8-TSSOP	Digi-Key
SMD	R-3-045	IRF7484Q		MOSFET N_CHV 14A 8-SOIC QTY 10	Digi-Key
SMD	R-3-046	FDN306PCT-ND		MOSFET P-CHAN 12V 2.6A SSOT3	Digi-Key
SMD	R-3-046A	VNN1NV0413TR	497-2517-1	MOSFET N_CH 40V 1.7A SOT223 QTY 20	Digi-Key
SMD	R-3-046B	MMBT2222A		Transistor NPN 40V 0.6A SDT-23	Digi-Key
SMD	R-3-046C	MB2S-E3/1GI		Rectifier Bridge 0.5A TO269AA	Digi-Key
SMD	R-3-046D	HD06DICT		Rect Bridge GP 600V 0.8A MINIDIP	Digi-Key
SMD	R-3-046E	SIZB60	627-SIZB60	VRM=600, IFSM=30 Gen Purpose Rectifiers	Mouser
SMD	R-3-047	FMMT449CT-ND		TRANS HP NPN 30V 1000MA SOT-23	Digi-Key
SMD	R-3-047A	IRF7484Q		MOSFET N-CH 40V 14A 8-SOIC	Digi-Key
SMD	R-3-047B	QRE1113GRCT-ND		IC Reflective Sensor SMD	Digi-Key
SMD	R-3-047C	TCPT1300X01		Sensor Optical Phototrans SMD	Digi-Key
SMD	R-3-047D	MBRS340T3GOSCT-		DIODE SCHOTTKY 40V 4A SMC	Digi-Key
SMD	R-3-047E	P7J103CT		POT 10K OHM 3MM SEALED SMD 3TT	Digi-Key
SMD	R-3-047F	FMMT619CT-ND		Trans HP NPN 50V 2000MA SOT23-3	Digi-Key
SMD	R-3-048	AD8553ARMZ-REEL		IC AMP INST PREC SHUTDN 10-MSOP	Digi-Key
SMD	R-3-048A	INA2321EA/250		IC R-R CMOS INSTR AMP 14-TSSOP	Digi-Key
SMD	R-3-048B	OPA2364ID		IC OP AMP RRIO HI-CMRR 8-SOIC	Digi-Key
SMD	R-3-048C	OPA2350UA-ND		IC HS CMOS DUAL OP AMP	Digi-Key
SMD	R-3-048D	LM2937IMP-3.3CT-		IC Regulator LDO SOT-223	Digi-Key
SMD	R-3-049	INA2321EACT-ND		IC R_R CMOS INSTR AMP 14-TSSOP	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD	R-3-049A	MAX660CSA+		IC VOLATGE CONVERTER CMOS 8-SOIC	Digi-Key
SMD	R-3-049B	LM324AM-ND		IC QUAD LOW POWER OP AMP SO-14	Digi-Key
SMD	R-3-050	LM124D		IC OPAMP QUAD LOW POWER 14-SOIC	Digi-Key
SMD	R-3-050A	MSP430F1132IPW	296-13779-5	IC 16BIT MCU 8KB FLASH 20-TSSOP	Digi-Key
SMD	R-3-050B	CD4052BCM	CD4052BCM_ND	IC 4CH ANA MUX/DEMUX SO-16 SMD	Digi-Key
SMD	R-3-050C	LTC1562CG		IC FILTER UNIV RC QUAD LN 20SSOP \$19.31	Digi-Key
SMD	R-3-050D	MAX4020ESD+-ND		IC Opamp Quad R-R HS 14-SOIC	Digi-Key
SMD	R-3-050D	MSP430F2232IDAR	296-21444-1-ND	IC MCU 16BIT 8K Flash 38-TSSOP	Digi-Key
SMD	R-3-051	LT1781CS-ND		IC 5V RS232 DUAL DVR?REC SO16	Digi-Key
SMD	R-3-051A	AD7825BR		IC ADC 8BIT 4CH 2MSPS 24-SOIC	Digi-Key
SMD	R-3-051B	CBC2012T100M		INDUCTOR 10UH 20% 0805 SMD	Digi-Key
SMD	R-3-052	LPC660IM/NOPB		IC OP AMP QUAD LP CMOS 14-SOIC	Digi-Key
SMD	R-3-052A	SN65LVDS3487D		IC QUAD DIFF LINE DRVR 16-SOIC	Digi-Key
SMD	R-3-052B	HSMS-2852-BLK		DIODE SCHOTTKY DETECT SS SOT-23	Digi-Key
SMD	R-3-052C	296-9385-5		IC LI-ION CHARGE MGMT 20-HTSSOP	Digi-Key
SMD	R-3-053	MM74HC14M		IC TRIGGER HEX INVERT 14-SOIC	Digi-Key
SMD	R-3-053A	LM555CM		IC TIMER SINGLE PREC 8-SOIC	Digi-Key
SMD	R-3-053B	AD8138		IC AMP DIFF LDIST LP 95MA 8SOIC	Digi-Key
SMD	R-3-053C	AD627		IC AMP INST R-R 25MA 8SOIC	Digi-Key
SMD	R-3-053D	AD623		IC AMP INST R-R LP 8SOIC	Digi-Key
SMD	R-3-054	AD620AR		IC AMP INST LP LN 18MA 8SOIC \$6.27	Digi-Key
SMD	R-3-054A	ADMC200AP		IC MOTION CO-PROC 12.5MHZ 68PLCC	Digi-Key
SMD	R-3-054B	ADMC201AP		IC MOTION CO-PROC 25MHZ 68PLCC	Digi-Key
SMD	R-3-055	TLE5205-2GINCT-N		IC H-BRIDGE 5A DC MOTOR TO263-7	Digi-Key
SMD	R-3-056	MCP9801-M/SN-ND		IC SENSOR THERMAL 2.7V 8SOIC	Digi-Key
SMD	R-3-057	24AA16-I/SN-ND		IC EEPROM 16KBIT 400KHZ 8SOIC	Digi-Key
SMD	R-3-058	568-3392-1-ND		IC LED DRIVER LINEAR 8-TSSOP	Digi-Key
SMD	R-3-059	768-1007-1-ND		IC USB TO SERIAL UART 28-SSOP	Digi-Key
SMD	R-3-060	LTC8043FN8	LTC8043FN8#	IC D/A Conv 12Bit Serial 8-DIP	Digi-Key
SMD	R-3-063A	P11319CT-ND		CAP 47uF 16V Tantalum TE SMD	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD	R-3-083	67-1637-1		LED 610NM SUPER ORANGE 0805 SMD	Digi-Key
SMD	R-3-084	160-1413-1-ND		LED YELLOW ORANGE CLEAR 0805 SMD	Digi-Key
SMD	R-3-085	160-1579-1-ND		LED BLUE CLEAR 0805 SMD	Digi-Key
SMD	R-3-086	490-1015-1-ND		FERRITE CHIP 1000 OHM 100MA 0603	Digi-Key
SMD	R-3-087	67-1636-1-ND		LED 636NM SUPER RED 0805 SMD	Digi-Key
SMD	R-3-091	212880		16-PIN DUAL ROW HEADER	Jameco
SMD	R-3-10A	PIC10F200T-I	PIC10F200T-I/OTCT-ND	IC PIC MCU FLASH 256x12 SOT23-6	Digi-Key
SMD	R-3-10B	CD74HC597M96	296-16704-1-ND	IC Shift Register 8-BIT 16SOIC	Digi-Key
SMD-ADC/DAC	R-3-059A	PCF8591T/2.512	568-3991-5-ND	IC ADC/DAC 8 BIT I2C 16-SOIC	Digi-Key
SMD-CAPACITORS	R-3-061	06035J1R0BBTTR		CAP CERAMIC 1.0PF 50V 0603 RFSMD	Digi-Key
SMD-CAPACITORS	R-3-061A			10PF	
SMD-CAPACITORS	R-3-061B			12PF	
SMD-CAPACITORS	R-3-061C			15PF	
SMD-CAPACITORS	R-3-061D	ECJ-2VC1H180J	PCC180CNCT-ND	CAP 18PF 50V CERM CHIP 0805 SMD	Digi-Key
SMD-CAPACITORS	R-3-061E	MC12ED180J-F	338-1107-ND	Cap 18pf 500v Mica Chip 1210	Digi-Key
SMD-CAPACITORS	R-3-062	490-1334-1-ND		Cap Cer 20pf 100v 5% COG 0603	Digi-Key
SMD-CAPACITORS	R-3-062A	311-1154-1-ND		Cap Ceramic 22pf 50v NP0 1206	Digi-Key
SMD-CAPACITORS	R-3-062B			27PF	
SMD-CAPACITORS	R-3-062C	338-1117-ND		Cap 33pf 500v Mica Chip 1210	Digi-Key
SMD-CAPACITORS	R-3-062D			39pf	
SMD-CAPACITORS	R-3-062E	445-1273-1-ND		Cap Cer 22pf 50V COG 5% 0603	Digi-Key
SMD-CAPACITORS	R-3-063	399-1019-1-ND		Cap Cer 47pf 50v NP0 0402	Digi-Key
SMD-CAPACITORS	R-3-063A	338-1023-ND		Cap 47pf 500v Mica Chip 1210	Digi-Key
SMD-CAPACITORS	R-3-063B	311-1066-1-ND		Cap Ceramic 56pf 50v NP0 0603	Digi-Key
SMD-CAPACITORS	R-3-063C	338-1033-ND		Cap 68pf 500v Mica Chip 1210	Digi-Key
SMD-CAPACITORS	R-3-063D			82pf	
SMD-CAPACITORS	R-3-064	388-1022-1-ND		Cap Ceramic 100pf 25v NP0 0402	Digi-Key
SMD-CAPACITORS	R-3-064A	445-1247-1-ND		Cap Cer 100pf 50v COG 5% 0402	Digi-Key
SMD-CAPACITORS	R-3-064B	338-1025-ND		Cap 100pf 500v Mica Chip 1812	Digi-Key
SMD-CAPACITORS	R-3-064C	338-1123-ND		Cap 120pf 500v Nica Chip 1812	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-CAPACITORS	R-3-064D			150pf	
SMD-CAPACITORS	R-3-064E			180pf	
SMD-CAPACITORS	R-3-065	338-1003-ND		Cap 220pf 100v Mica Chip 1210	Digi-Key
SMD-CAPACITORS	R-3-065A			270pf	
SMD-CAPACITORS	R-3-065B	338-1126-ND		Cap 330pf 500v Mica Chip 1812	Digi-Key
SMD-CAPACITORS	R-3-065C			390pf	
SMD-CAPACITORS	R-3-066			470pf	
SMD-CAPACITORS	R-3-066A			560pf	
SMD-CAPACITORS	R-3-066B			680pf	
SMD-CAPACITORS	R-3-066C	311-1189-1		Cap 820pf 50v Ceramic X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-067	399-1031-1-ND		CAP 1000PF 25V CERAMIC X7R 0402	Digi-Key
SMD-CAPACITORS	R-3-067A			1000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-067B	311-1080-1-ND		CAP 1000PF 50V CERAMIC X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-067C	399-1083-1-ND		CAP 1000PF 50V CERAMIC X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-068			1200pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-068A	445-1294-1-ND		CAP CER 1200PF 50V C0G 5% 0603	Digi-Key
SMD-CAPACITORS	R-3-068B			1500pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-068C	490-1475-1-ND		CAP CER 1500PF 100V 10% X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-068D			1800pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-069			2200pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-069A			2700pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-069B			3300pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-069C			3900pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-070			4700pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-070A			5600pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-070B			6800pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-070C			8200pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-071	PCF1196CT-ND		CAP .01UF 16V PPS FILM 0805 5%	Digi-Key
SMD-CAPACITORS	R-3-071A	490-1520-1-ND		CAP CER 10000PF 25V 10% X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-071B			10000pF 50V Ceramic 0805 X7R	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-CAPACITORS	R-3-071C			12000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-071D			15000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-071E			18000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-072			22000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-072A			27000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-072B			33000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-072C			39000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-073	478-1236-1-ND		CAP CER .056UF 10% 16V X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-073A	399-3483-1-ND		CAP CER .056UF 100V X7R 0805	Digi-Key
SMD-CAPACITORS	R-3-073B			47000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-073C			56000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-073D			68000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-073E			82000pF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-074	PCF1126CT-ND		CAP .1UF 16V FILM 0805 20%	Digi-Key
SMD-CAPACITORS	R-3-074A	490-1327-1-ND		CAP CER .1UF 16V Y5V 0402	Digi-Key
SMD-CAPACITORS	R-3-074B	445-1316-1-ND		CAP CER .10UF 25V X7R 10% 0603	Digi-Key
SMD-CAPACITORS	R-3-074C	399-3486-1-ND		CAP CER .10UF 100V X7R 0805	Digi-Key
SMD-CAPACITORS	R-3-074D			0.1uF 16V	
SMD-CAPACITORS	R-3-074E			0.1uF 50V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-075			0.12uF 25V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-075A			0.15uF 25V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-075B	490-1533-1-ND		CAP CER .15UF 10V 10% X7R 0603	Digi-Key
SMD-CAPACITORS	R-3-075C			0.18uF 25V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-076			0.22uF 25V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-076A	PCC1875CT-ND		CAP .27UF 16V CERAMIC X7R 1206	Digi-Key
SMD-CAPACITORS	R-3-077	PCC1911CT-ND		CAP .47UF 6.3V CERAMIC X5R 0603	Digi-Key
SMD-CAPACITORS	R-3-077A			0.47uF 16V Ceramic 0805 X7R	
SMD-CAPACITORS	R-3-077B	PCC473BCT-ND		CAP 47000PF 50V CERM CHIP 1206	Digi-Key
SMD-CAPACITORS	R-3-077C	PCC1913CT-ND		CAP .68UF 6.3V CERAMIC X5R0603	Digi-Key
SMD-CAPACITORS	R-3-078			Cap 1uf 6.3V	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-CAPACITORS	R-3-078A	PCC1787CT-ND		CAP 1UF 10V CERAMIC Y5V 0603	Digi-Key
SMD-CAPACITORS	R-3-078B	PCC2174CT-ND		CAP 1UF 10V CERAMIC 0603 X5R	Digi-Key
SMD-CAPACITORS	R-3-078C	PCC2457CT		CAP 1UF 10V CERAMIC X5R 0805	Digi-Key
SMD-CAPACITORS	R-3-078D	399-1284-1-ND		CAP 1.0UF 16V CERAMIC X7R 0805	Digi-Key
SMD-CAPACITORS	R-3-078E	445-3451-1-ND		CAP CER 2.2UF 16V Y5V 0603	Digi-Key
SMD-CAPACITORS	R-3-078F	PCC2407CT-ND		CAP CERAMIC 4.7UF 10V X5R 0805	Digi-Key
SMD-CAPACITORS	R-3-079	PCC2327CT		CAP CERAMIC 10UF 6.3V X5R 0805	
SMD-CAPACITORS	R-3-079A	PCC1940CT-ND		CAP 10UF 6.3V CERAMIC X5R 1206	Digi-Key
SMD-CAPACITORS	R-3-079B	445-3448-1-ND		CAP CER 10UF 6.3V Y5V 0603	Digi-Key
SMD-CAPACITORS	R-3-079C	495-3263-1-ND		CAP CER 10UF 10V X5R 10% 0805	Digi-Key
SMD-CAPACITORS	R-3-079D	ECJ-CV50J106M		CAP CERAMIC 10UF 6.3V X5R 0805	Digi-Key
SMD-CAPACITORS	R-3-079E	PCC2169CT		CAP 10UF 16V CERAMIC X5R 1210	Digi-Key
SMD-CAPACITORS	R-3-080	P11319CT-ND		CAP 47UF 16V TANTALUM TE SMD	Digi-Key
SMD-CAPACITORS	R-3-081	PCE4180CT		CAP 100UF 16V ELECT HA SMD	Digi-Key
SMD-CAPACITORS	R-3-082	565-2092-1-ND		CAP 330UF 16V ELECT MVA SMD	Digi-Key
SMD-CAPACITORS	R-3-088				
SMD-CAPACITORS	R-3-089				
SMD-CAPACITORS	R-3-090				
SMD-CAPACITORS	R-3-092				
SMD-CAPACITORS	R-3-093				
SMD-CAPACITORS	R-3-094				
SMD-CAPACITORS	R-4-061			NMC 0402 ENGINEERING KIT, 25values, 1.0pF-0.1uF	
SMD-CAPACITORS	R-4-062			NMC 0603 ENGINEERING KIT, 25values, 10pF-0.33uF	
SMD-CAPACITORS	R-4-063			NMC 0805 ENGINEERING KIT, 25values, 1.0pF-1.0uF	
SMD-RESISTORS	R-4-001	311-1.0JCT-ND		RES 1.0 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-001A	311-1.00CRCT-ND		RES 1.00 OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-001B			RESISTOR 1.1 OHM SMD	
SMD-RESISTORS	R-4-001C			RESISTOR 1.2 OHM SMD	
SMD-RESISTORS	R-4-002			RESISTOR 1.3 OHM SMD	
SMD-RESISTORS	R-4-002A			RESISTOR 1.5 OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-002B			RESISTOR 1.6 OHM SMD	
SMD-RESISTORS	R-4-003			RESISTOR 1.68OHM SMD	
SMD-RESISTORS	R-4-003A	311-2.0JCT-ND		RES 2.0 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-003B			RESISTOR 2.0 OHM SMD	
SMD-RESISTORS	R-4-003C			RESISTOR 2.2 OHM SMD	
SMD-RESISTORS	R-4-004			RESISTOR 2.4 OHM SMD	
SMD-RESISTORS	R-4-004A			RESISTOR 2.27OHM SMD	
SMD-RESISTORS	R-4-004B	311-3.0JCT-ND		RES 3.0 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-004C			RESISTOR 3.0 OHM SMD	
SMD-RESISTORS	R-4-005			RESISTOR 3.3 OHM SMD	
SMD-RESISTORS	R-4-005A			RESISTOR 3.6 OHM SMD	
SMD-RESISTORS	R-4-005B	311-3.9JCT-ND		RES 3.9 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-005C			RESISTOR 3.9 OHM SMD	
SMD-RESISTORS	R-4-006	P4.3JCT-ND		RESISTOR 4.3 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-006A			RESISTOR 4.3 OHM SMD	
SMD-RESISTORS	R-4-006B	311-4.7JCT-ND		RES 4.7 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-006C			RESISTOR 4.7 OHM SMD	
SMD-RESISTORS	R-4-006D			RESISTOR 5.1 OHM SMD	
SMD-RESISTORS	R-4-007	311-5.6JCT-ND		RES 5.6 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-007A			RESISTOR 5.6 OHM SMD	
SMD-RESISTORS	R-4-007B			RESISTOR 6.2 OHM SMD	
SMD-RESISTORS	R-4-007C			RESISTOR 6.8 OHM SMD	
SMD-RESISTORS	R-4-008			RESISTOR 7.5 OHM SMD	
SMD-RESISTORS	R-4-008A	RHM8.20FCT-ND		RES 8.20 OHM 1/4W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-008B			RESISTOR 8.2 OHM SMD	
SMD-RESISTORS	R-4-008C			RESISTOR 9.1 OHM SMD	
SMD-RESISTORS	R-4-009	311-10JCT-ND		RES 10 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-009A	RHM10.0LCT-ND		RES 10.0 OHM 1/16W 1% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-009B	311-10.0CCT-ND		RES 10.0 OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-009C			RESISTOR 10 OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-009D			RESISTOR 11 OHM SMD	
SMD-RESISTORS	R-4-009E			RESISTOR 12 OHM SMD	
SMD-RESISTORS	R-4-010			RESISTOR 13 OHM SMD	
SMD-RESISTORS	R-4-010A	311-15JCT-ND		RES 15 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-010B			RESISTOR 15 OHM SMD	
SMD-RESISTORS	R-4-010C			RESISTOR 16 OHM SMD	
SMD-RESISTORS	R-4-011	311-18GCT-ND		RES 18 OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-011A			RESISTOR 18 OHM SMD	
SMD-RESISTORS	R-4-011B	311-20JCT-ND		RES 20 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-011C			RESISTOR 20 OHM SMD	
SMD-RESISTORS	R-4-011D			RESISTOR 22 OHM SMD	
SMD-RESISTORS	R-4-012			RESISTOR 24 OHM SMD	
SMD-RESISTORS	R-4-012A	311-27JCT-ND		RES 27 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-012B			RESISTOR 27 OHM SMD	
SMD-RESISTORS	R-4-012C			RESISTOR 30 OHM SMD	
SMD-RESISTORS	R-4-013	P33GCT-ND		RES 33 OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-013A	541-33VCT-ND		RES 33 OHM 1/3W 5% 1210 SMD	Digi-Key
SMD-RESISTORS	R-4-013B			RESISTOR 33 OHM SMD	
SMD-RESISTORS	R-4-013C			RESISTOR 36 OHM SMD	
SMD-RESISTORS	R-4-013D	311-39JCT-ND		RES 39 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-013E			RESISTOR 39 OHM SMD	
SMD-RESISTORS	R-4-014			RESISTOR 43 OHM SMD	
SMD-RESISTORS	R-4-014A	311-47JCT-ND		RES 47 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-014B			RESISTOR 47 OHM SMD	
SMD-RESISTORS	R-4-014C	311-51JCT-ND		RES 51 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-014D			RESISTOR 51 OHM SMD	
SMD-RESISTORS	R-4-015	311-56JCT-ND		RES 56 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-015A			RESISTOR 56 OHM SMD	
SMD-RESISTORS	R-4-015B			RESISTOR 62 OHM SMD	
SMD-RESISTORS	R-4-015C	P66.5CCT-ND		RES 66.5 OHM 1/8W 1% 0805 SMD	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-015D			RESISTOR 68 OHM SMD	
SMD-RESISTORS	R-4-016	311-75JCT-ND		RES 75 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-016A			RESISTOR 75 OHM SMD	
SMD-RESISTORS	R-4-016B			RESISTOR 82 OHM SMD	
SMD-RESISTORS	R-4-016C	311-91JCT-ND		RES 91 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-016D			RESISTOR 91 OHM SMD	
SMD-RESISTORS	R-4-017	311-100JCT-ND		RES 100 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-017A	311-100LCT-ND		RES 100 OHM 1/16W 1% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-017B			RESISTOR 100 OHM SMD	
SMD-RESISTORS	R-4-017C			RESISTOR 110 OHM SMD	
SMD-RESISTORS	R-4-017D			RESISTOR 120 OHM SMD	
SMD-RESISTORS	R-4-018			RESISTOR 130 OHM SMD	
SMD-RESISTORS	R-4-018A	311-150JCT-ND		RES 150 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-018B			RESISTOR 150 OHM SMD	
SMD-RESISTORS	R-4-018C			RESISTOR 160 OHM SMD	
SMD-RESISTORS	R-4-019	RHM180CRCT		RES 180 OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-019A			RESISTOR 180 OHM SMD	
SMD-RESISTORS	R-4-019B			RESISTOR 200 OHM SMD	
SMD-RESISTORS	R-4-019C	311-220JCT-ND		RES 220 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-019D			RESISTOR 220 OHM SMD	
SMD-RESISTORS	R-4-020			RESISTOR 240 OHM SMD	
SMD-RESISTORS	R-4-020A	311-270JCT-ND		RES 270 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-020B			RESISTOR 270 OHM SMD	
SMD-RESISTORS	R-4-020C			RESISTOR 300 OHM SMD	
SMD-RESISTORS	R-4-021	311-330JCT-ND		RES 330 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-021A			RESISTOR 330 OHM SMD	
SMD-RESISTORS	R-4-021B			RESISTOR 360 OHM SMD	
SMD-RESISTORS	R-4-021C	311-390JCT-ND		RES 390 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-021D			RESISTOR 390 OHM SMD	
SMD-RESISTORS	R-4-022			RESISTOR 430 OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-022A			RESISTOR 470 OHM SMD	
SMD-RESISTORS	R-4-022B			RESISTOR 510 OHM SMD	
SMD-RESISTORS	R-4-023	311-560JCT-ND		RES 560 OHM 1/16W 5% 0402 SMD	
SMD-RESISTORS	R-4-023A	311-560HCT-ND		RES 560 OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-023B			RESISTOR 560 OHM SMD	
SMD-RESISTORS	R-4-023C			RESISTOR 620 OHM SMD	
SMD-RESISTORS	R-4-023D	311-680JCT-ND		RES 680 OHM 1/16W 5% 0402 SMD	
SMD-RESISTORS	R-4-023E			RESISTOR 680 OHM SMD	
SMD-RESISTORS	R-4-024			RESISTOR 750 OHM SMD	
SMD-RESISTORS	R-4-024A			RESISTOR 820 OHM SMD	
SMD-RESISTORS	R-4-024B			RESISTOR 910 OHM SMD	
SMD-RESISTORS	R-4-025	P1.00KLCT-ND		RES 1.00K OHM 1/16W 1% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-025A	RHM2.00KHCT		RES 1.00K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-025B	31101.0KERCT-ND		RES 1.0K OHM 1/4W 5% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-025C			RESISTOR 1.0K OHM SMD	
SMD-RESISTORS	R-4-025D			RESISTOR 1.1K OHM SMD	
SMD-RESISTORS	R-4-025E	311-1.2KJCT-ND		RES 1.2K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-025F			RESISTOR 1.2K OHM SMD	
SMD-RESISTORS	R-4-026			RESISTOR 1.3K OHM SMD	
SMD-RESISTORS	R-4-026A	P1.5KGCT-ND		RES 1.5K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-026B			RESISTOR 1.5K OHM SMD	
SMD-RESISTORS	R-4-026C			RESISTOR 1.6K OHM SMD	
SMD-RESISTORS	R-4-027	311-1.8KJCT-ND		RES 1.8K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-027A			RESISTOR 1.8K OHM SMD	
SMD-RESISTORS	R-4-027B			RESISTOR 2.0K OHM SMD	
SMD-RESISTORS	R-4-027C	311-2.2KJCT-ND		RES 2.2K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-027D			RESISTOR 2.2K OHM SMD	
SMD-RESISTORS	R-4-028			RESISTOR 2.4K OHM SMD	
SMD-RESISTORS	R-4-028A	311-2.7KJCT-ND		RES 2.7K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-028B			RESISTOR 2.7K OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-028C	P3.0KGCT-ND		RES 3.0K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-028D	RHM3.00KHCT-ND		RES 3.00K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-028E			RESISTOR 3.0K OHM SMD	
SMD-RESISTORS	R-4-029	311-3.3KJCT-ND		RES 3.3K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-029A			RESISTOR 3.3K OHM SMD	
SMD-RESISTORS	R-4-029B			RESISTOR 3.6K OHM SMD	
SMD-RESISTORS	R-4-029C	311-3.9KJCT-ND		RES 3.9K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-029D	311-3.9KGCT		RES 3.9K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-029E			RESISTOR 3.9K OHM SMD	
SMD-RESISTORS	R-4-030			RESISTOR 4.3K OHM SMD	
SMD-RESISTORS	R-4-030A	311-4.7KJCT-ND		RES 4.7K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-030B	RHM4.7KARCT-ND		RES 4.7K OHM 1/8W 5% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-030C			RESISTOR 4.7K OHM SMD	
SMD-RESISTORS	R-4-030D			RESISTOR 5.1K OHM SMD	
SMD-RESISTORS	R-4-031	311-5.6KJCT-ND		RES 5.6K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-031A	311-5.60KHCT-ND		RES 5.60K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-031B			RESISTOR 5.6K OHM SMD	
SMD-RESISTORS	R-4-031C			RESISTOR 6.2K OHM SMD	
SMD-RESISTORS	R-4-031D	311-6.8KJCT-ND		RES 6.8K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-031E			RESISTOR 6.8K OHM SMD	
SMD-RESISTORS	R-4-032			RESISTOR 7.5K OHM SMD	
SMD-RESISTORS	R-4-032A	311-8.3KJCT-ND		RES 8.2K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-032B			RESISTOR 8.2K OHM SMD	
SMD-RESISTORS	R-4-032C			RESISTOR 9.1K OHM SMD	
SMD-RESISTORS	R-4-033	311-10KGCT-ND		RES 10K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-033A	RHM10.0KHCT-ND		RES 10.0K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-033B	P10.0KCCT-ND		RES 10.0K OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-033C	311-11KJCT-ND		RES 11K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-033D			RESISTOR 11K OHM SMD	
SMD-RESISTORS	R-4-033E			RESISTOR 12K OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-034			RESISTOR 13K OHM SMD	
SMD-RESISTORS	R-4-034A			RESISTOR 15K OHM SMD	
SMD-RESISTORS	R-4-034B			RESISTOR 16K OHM SMD	
SMD-RESISTORS	R-4-035			RESISTOR 18K OHM SMD	
SMD-RESISTORS	R-4-035A			RESISTOR 20K OHM SMD	
SMD-RESISTORS	R-4-035B	311-22KJCT-ND		RES 22K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-035C			RESISTOR 22K OHM SMD	
SMD-RESISTORS	R-4-035D	P22.1KFCT-ND		RES 22.1K OHM 1/8W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-036			RESISTOR 24K OHM SMD	
SMD-RESISTORS	R-4-036A	311-27KJCT-ND		RES 27K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-036B			RESISTOR 27K OHM SMD	
SMD-RESISTORS	R-4-036C			RESISTOR 30K OHM SMD	
SMD-RESISTORS	R-4-037	311-33KJCT-ND		RES 33K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-037A			RESISTOR 33K OHM SMD	
SMD-RESISTORS	R-4-037B			RESISTOR 36K OHM SMD	
SMD-RESISTORS	R-4-037C	311-39KGCT		RES 39K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-037D	311-39.0KHRCT-ND		RES 39.0K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-037E			RESISTOR 39K OHM SMD	
SMD-RESISTORS	R-4-038	311-43KJCT-ND		RES 43K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-038A			RESISTOR 43K OHM SMD	
SMD-RESISTORS	R-4-038B			RESISTOR 47K OHM SMD	
SMD-RESISTORS	R-4-038C	311-47.5KHCT		RES 47.5K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-038D	P51KGCT-ND		RES 51K OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-038E			RESISTOR 51K OHM SMD	
SMD-RESISTORS	R-4-039	311-56KJCT-ND		RES 56K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-039A			RESISTOR 56K OHM SMD	
SMD-RESISTORS	R-4-039B			RESISTOR 62K OHM SMD	
SMD-RESISTORS	R-4-039C	311-68KJCT-ND		RES 68K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-039D			RESISTOR 68K OHM SMD	
SMD-RESISTORS	R-4-040			RESISTOR 75K OHM SMD	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-040A			RESISTOR 82K OHM SMD	
SMD-RESISTORS	R-4-040B	P88.7KHCT-ND		RES 88.7K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-040C			RESISTOR 91K OHM SMD	
SMD-RESISTORS	R-4-041	311-100KJCT-ND		RES 100K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-041A	P100KLCT-ND		RES 100K OHM 1/16W 1% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-041B			RESISTOR 100K OHM SMD	
SMD-RESISTORS	R-4-041C			RESISTOR 110K OHM SMD	
SMD-RESISTORS	R-4-041D	311-120KJCT-ND		RES 120K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-041E			RESISTOR 120K OHM SMD	
SMD-RESISTORS	R-4-042			RESISTOR 130K OHM SMD	
SMD-RESISTORS	R-4-042A	66-PFC12LF140K-B		140K OHM .1% 25PPM IRC 1206 PRECISION SMD RESISTORS	Mouser
SMD-RESISTORS	R-4-042B			RESISTOR 150K OHM SMD	
SMD-RESISTORS	R-4-042C			RESISTOR 160K OHM SMD	
SMD-RESISTORS	R-4-043	311-180KJCT-ND		RES 180K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-043A			RESISTOR 180K OHM SMD	
SMD-RESISTORS	R-4-043B	P200KFCT		RES 200K OHM 1/8W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-043C			RESISTOR 200K OHM SMD	
SMD-RESISTORS	R-4-043D			RESISTOR 220K OHM SMD	
SMD-RESISTORS	R-4-044			RESISTOR 240K OHM SMD	
SMD-RESISTORS	R-4-044A			RESISTOR 270K OHM SMD	
SMD-RESISTORS	R-4-044B	RHM280KHCT-ND		RES 280K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-044C	311-300KJCT-ND		RES 300K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-044D			RESISTOR 300K OHM SMD	
SMD-RESISTORS	R-4-045			RESISTOR 330K OHM SMD	
SMD-RESISTORS	R-4-045A			RESISTOR 360K OHM SMD	
SMD-RESISTORS	R-4-045B	311-390KCRCT		RES 390K OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-045C			RESISTOR 390K OHM SMD	
SMD-RESISTORS	R-4-046	311-430KJCT-ND		RES 430K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-046A			RESISTOR 430K OHM SMD	
SMD-RESISTORS	R-4-046B	RHM432KHCT-ND		RES 432K OHM 1/10W 1% 0603 SMD	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SMD-RESISTORS	R-4-046C	RHM432KCCT		RES 432K OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-046D	311-470JCT-ND		RES 470 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-046E			RESISTOR 470K OHM SMD	
SMD-RESISTORS	R-4-046F			RESISTOR 510K OHM SMD	
SMD-RESISTORS	R-4-047	311-560KJCT-ND		RES 560K OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-047A			RESISTOR 560K OHM SMD	
SMD-RESISTORS	R-4-047B			RESISTOR 620K OHM SMD	
SMD-RESISTORS	R-4-047C			RESISTOR 680K OHM SMD	
SMD-RESISTORS	R-4-048	311-715KCRCT		RES 715K OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-048A			RESISTOR 750K OHM SMD	
SMD-RESISTORS	R-4-048B	RHM820KFDKR-ND		RES 820K OHM 1/4W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-048C			RESISTOR 820K OHM SMD	
SMD-RESISTORS	R-4-048D	RHM866KHCT-ND		RES 866K OHM 1/10W 1% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-048E	311-910JCT-ND		RES 910 OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-048F			RESISTOR 910K OHM SMD	
SMD-RESISTORS	R-4-049	311-1.0MJCT-ND		RES 1.0M OHM 1/16W 5% 0402 SMD	Digi-Key
SMD-RESISTORS	R-4-049A	P1.0MGCT-ND		RES 1.0M OHM 1/10W 5% 0603 SMD	Digi-Key
SMD-RESISTORS	R-4-049B	RHM1.00MCCT-ND		RES 1.00M OHM 1/8W 1% 0805 SMD	Digi-Key
SMD-RESISTORS	R-4-049C			RESISTOR 1.0M OHM SMD	
SMD-RESISTORS	R-4-049D	RHM1.80MFCT-ND		RES 1.80M OHM 1/4W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-049E	311-6.20MFCT-ND		RES 6.20M OHM 1/4W 1% 1206 SMD	Digi-Key
SMD-RESISTORS	R-4-050	RMCF1/100RCT-ND		RES 0.0 OHM 1/8W 0805 SMD	Digi-Key
SOCKET	I-1-001			6 PIN DIP	
SOCKET	I-1-002			8 PIN ROUND	
SOCKET	I-1-003			8 PIN DIP	
SOCKET	I-1-004			8 PIN DIP	
SOCKET	I-1-005			14 PIN DIP	
SOCKET	I-1-006			14 PIN DIP	
SOCKET	I-1-007			14 PIN DIP	
SOCKET	I-1-008			16 PIN DIP	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SOCKET	I-1-009			16 PIN DIP	
SOCKET	I-1-010			16 PIN DIP	
SOCKET	I-1-011			16 PIN WIREWRAP	
SOCKET	I-1-012			16 PIN DIP	
SOCKET	I-1-013			20 PIN DIP	
SOCKET	I-1-014			20 PIN DIP	
SOCKET	I-1-015			20 PIN DIP	
SOCKET	I-1-016			22 PIN DIP	
SOCKET	I-1-017			24 PIN DIP	
SOCKET	I-1-018			24 PIN DIP	
SOCKET	I-1-019			24 PIN DIP	
SOCKET	I-1-020			28 PIN DIP	
SOCKET	I-1-021			28 PIN DIP .6 IN	
SOCKET	I-1-022			28 PIN DIP .6 IN	
SOCKET	I-1-023			28 PIN DIP	
SOCKET	I-1-024			28 PIN DIP .3 IN	
SOCKET	I-1-025			28 PIN DIP .3 IN	
SOCKET	I-1-026			28 PIN DIP .3 IN	
SOCKET	I-1-027			40 PIN DIP	
SOCKET	I-1-028			40 PIN DIP	
SOCKET	I-1-029			48 PIN DIP	
SOCKET	I-1-030			64 PIN DIP	
SOCKET	I-1-031			32 PIN PLCC	
SOCKET	I-1-032			18 PIN DIP	
SOCKET	I-1-033			18 PIN DIP	
SOCKET	I-1-034			18 PIN DIP	
SOCKET	I-1-035			18 PIN DIP	
SOCKET	I-1-036			24 PIN DIP	
SOCKET	I-1-037			24 PIN DIP	
SOCKET	I-1-038			24 PIN DIP	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SOCKET	I-1-039			40 PIN DIP	
SOCKET	I-1-040			24 PIN ZIF	
SOCKET	I-1-041			PIN GRID ARRAY	
SOCKET	I-1-042			PLCC ADAPTERS	
SOCKET	I-1-043			40 PIN DIP	
SOCKET	I-1-044	S9000-ND		JUMPER	
SOCKET	I-1-045	A28351-ND		2 PIN RECEPTACLE	
SOCKET	I-1-046	A28355-ND		3 PIN RECEPTACLE	
SOCKET	I-1-047	A28357-ND		4 PIN RECEPTACLE	
SOCKET	I-1-048	A28361-ND		5 PIN RECEPTACLE	
SOCKET	I-1-048A	A28360-ND		4 PIN RECEPTACLE	
SOCKET	I-1-049	A28364-ND		6 PIN RECEPTACLE	
SOCKET	I-1-050	A28368-ND		7 PIN RECEPTACLE	
SOCKET	I-1-051	A28372-ND		8 PIN RECEPTACLE	
SOCKET	I-1-052	A28376-ND		9 PIN RECEPTACLE	
SOCKET	I-1-053	A28379-ND		10 PIN RECEPTACLE	
SOCKET	I-1-054	A28383-ND		11 PIN RECEPTACLE	
SOCKET	I-1-055	A28386-ND		12 PIN RECEPTACLE	
SOCKET	I-1-056			13 PIN RECEPTACLE	
SOCKET	I-1-057			14 PIN RECEPTACLE	
SOCKET	I-1-058			15 PIN RECEPTACLE	
SOCKET	I-1-059			16 PIN RECEPTACLE	
SOCKET	I-1-060			17 PIN RECEPTACLE	
SOCKET	I-1-061			18 PIN RECEPTACLE	
SOCKET	I-1-062			19 PIN RECEPTACLE	
SOCKET	I-1-063			20 PIN RECEPTACLE	
SOCKET	I-1-064	A25952-ND		MALE IDC PIN	
SOCKET	I-1-065	WM1000-ND		MALE IDC PIN	
SOCKET	I-1-066	538-50212-8100		FEMALE IDC PIN	
SOCKET	I-1-067	538-16-02-0098		FEMALE IDC PIN	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SOCKET	I-1-068	A25970-ND		FEMALE IDC PIN	
SOCKET	I-1-069	304776		FEMALE IDC PIN	
SOCKET	I-1-070	A25993-ND		FEMALE IDC PIN	
SOCKET	I-1-071	WM1837CT-ND		FEMALE IDC PIN	
SOCKET	I-1-072			FEMALE IDC PIN	
SOCKET	I-1-073	WM1001-ND		FEMALE IDC PIN	
SOLDER	S-1-001	KE1505		Plunger for 35gm syringe	Digi-Key
SOLDER	S-1-002A	1121-0388-P1		Tip, Tj, Singlejet, Curved A93	
SOLDER	S-1-002B	SRT12		Standard Replacement Tip For DS017, PT109, & US140 Desoldering Tools	
SOLDER	S-1-002C				
SOLDER	S-1-003A	1122-0001-P5		Tip, PS-90, 1/16 CHSL	
SOLDER	S-1-003B	1122-0004-P5		Tip, PS-90, 1/16 MF	
SOLDER	S-1-003C	1122-0017-P5		Tip, PS-90, 1/64 HARP CON	
SOLDER	S-1-003D	33-1658		Lead-Free Soldering Tip	
SOLDER	S-1-003E	33-8141		Lead-Free Soldering Tip	
SOLDER	S-1-003F	15865TL			
SOLDER	S-1-003G	15863TL			
SOLDER	S-1-004			Rosin Brushes	
SOLDER	S-1-005A			Desoldering Wire, Size B, 5FT	
SOLDER	S-1-005B			Desoldering Wire, Size A, 5FT	
SOLDER	S-1-005C	CW2-5		Solder Removal Braid .030", 2-5L	Digi-Key
SOLDER	S-1-006A			Desoldering Wire, Width 2mm, Length 1.5M	
SOLDER	S-1-006B			Desoldering Wire, Width 4mm, Length 1.5M	
SOLDER	S-1-006C			Desoldering Wire, .050", 100FT, 5-100L	
SOLDER	S-1-006D			Desoldering Wire, Size 1, 5FT	
SOLDER	S-1-006E	Mil-F142560 D Type		Desoldering Wire, .030"	
SOLDER	S-1-007			Tip Tinner, #Tip-2	
SOLDER	S-1-008A	1122-0610-P5		Tip, IR, Angled Miniwave	
SOLDER	S-1-008B			Long Conical Tip, 0.01" X 0.4mm	
SOLDER	S-1-008C			Screwdriver Tip, 1/8" X 3.17mm	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SOLDER	S-1-008D			Screwdriver Tip, 1/16" X1.6mm	
SOLDER	S-1-008E	1121-0360-P5		Tip, IR, 3/32 CHSL	
SOLDER	S-1-008F	44-415402	44-415402-ND	Solder tip 1/32" Chisel	Digi-Key
SOLDER	S-1-009A	1309-0054-P10		Flux/ Sodr Traps	
SOLDER	S-1-009B			Desoldering Wire, Size 5	
SOLDER	S-1-010			Rosin Paste Flux	
SOLDER	S-1-011			Rosin Paste Flux	
SOLDER	S-1-012			Rosin Paste Flux	
SOLDER	S-1-013			Solder, Size 60%,Dia. 1.0mm, 1LB	
SOLDER	S-1-014			Solder, 1LB	
SOLDER	S-1-015	EB1003-ND		Sponge Solder Iron 2" X 2.6"	Digi-Key
SOLDER	S-1-016A	1265-0011-P1		Glass Chamber, 5X-80	
SOLDER	S-1-016B	?????????		Jameco????????????	????????
SOLDER	S-1-017			10gm, 60/40, .031 Inch Dia. Rosin Core	
SOLDER	S-1-018A	FPD-1093		Flux-Pen	
SOLDER	S-1-018B	KE1507-ND		Solderpaste No Clean 63/27 35gm	Digi-Key
SOLDER	S-1-019	ZD-99		Adjustable Soldering Station	
SOLDER	S-1-020	0603459		Tip Cleaner (Without Stand)	Electronix Express
SOLDER	S-1-021	YL-10		Solder Sucker	
SOLDER	S-1-022A	1121-0680-P5		Tip, Endura, Precision, .020ID	
SOLDER	S-1-022B	1121-0679-P5		Tip, Endura, Precision, .040ID	
SOLDER	S-1-022C	1121-0349-P5		Tip, MF, 3/16SHK, 1/16CHL, PKG5	
SOLDER	S-1-022D			Soldering Iron Tip, Radioshack 40W Soldering Iron	
SOLDER	S-1-022E			ST1, 1/16" 1.6mm Screwdriver Tip	
SOLDER	S-1-022F			ST2, 3/32" 2.4mm Screwdriver Tip	
SOLDER	S-1-022G			Soldering Iron Tip	
SOLDER	S-1-022H			Soldering Iron Tip	
SOLDER	S-1-022I	0606ETO		ETO, 1/32" x 0.8mm	Electronix Express
SOLDER	S-3-001			Development Tools	Microchip
SOLDER	S-4-001			Development Tools	Microchip

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SOLDER	S-5-001			Desk Microphone	Labtec
SOLDER	T-5-001	0603460		Tip Cleaner	Electronix Express
SOLDER	T-6-001	WESD51		Soldering Station	Weller
SOLDER	T-6-002	A-2000-1		Soldering Stand	
SOLDER	T-6-003	ST-25		Soldering Station	Sodr-Tek
SOLDER	T-6-004	ST-25		Soldering Station	Sodr-Tek
SOLDER	T-6-005	168-3CK		Soldering Station	Xytronic
SOLDER	T-6-006	168-3CK		Soldering Station	Xytronic
SOLDER	T-7-001	168-3CK		Soldering Station	Xytronic
SOLDER	T-7-002	ZD-99		Soldering Station	MPJA
SOLDER	T-7-003	ZD-99		Soldering Station	MPJA
SOLDER	T-7-004	ZD-99		Soldering Station	MPJA
SPEAKER	T-4-003A			Speaker, 3" x 5" Oval, 8ohm	Aktron
SPEAKER	T-4-003B			Speaker, 3" x 5" Oval, 4-8ohm	Aktron
SPEAKER	T-4-003C			Speaker, 3 1/2" Square, 32ohm	Aktron
SPEAKER	T-4-003D			Speaker, 4" Square, 8ohm	Aktron
SPEAKER	T-4-003E			Speaker, 4" Square, 32ohm	Aktron
SPEAKER	T-4-004A			Speaker, 5" Round, 8ohm	Aktron
SPEAKER	T-4-004B	GF0401M		Speaker 8 ohm .2W 40mm Round	Digi-Key
SPEAKER	T-4-005A			Speaker, 2 1/2" Square, 8ohm	
SPEAKER	T-4-005B	668-1126		Speaker 8ohm 4W 90Db 77mm	Digi-Key
SPEAKER	T-4-005C			Speaker, 1 1/8" Round	
SPEAKER	T-4-005D			Speaker, 2" Round, 8ohm, 1W	
SPEAKER	T-4-005E			Speaker, 2 1/8" Round, 8ohm, .25W	
SPEAKER	T-7-005	QS-835		Powered Stereo Speakers	Quick Shot
SPEAKER	T-7-006	QS-835		Powered Stereo Speakers	Quick Shot
SRAM	B-2-096	DS1350		3.3V 4096K Nonvolatile SRAM with Battery Monitor	
SRAM	B-3-052	UM622560-70L		32K x 8 CMOS SRAM	
SRAM	B-3-055	CXK5864BP-70L		IC,SRAM,8KX8,CMOS,DIP,28PIN,PLASTIC	
SURGE PROTECTO	T-5-002A			1100 Joule, 15ft Chord	Power Sentry

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SURGE PROTECTO	T-5-002B			1080 Joule, Telephone Line Protection	Surge Expert
SURGE PROTECTO	T-5-002C			2160 Joule, Telephone Line Protection	Surge Expert
SWITCHES	B-1-011	CA3059		Switch Zero Voltage	
SWITCHES	B-1-093	SW06		QUAD SPST BIFET ANALOG SW	Jameco
SWITCHES	B-1-093A	ADG442BNZ	ADG442BNZ-ND	IC SWITCH QUAD SPST 16DIP	Digi-Key
SWITCHES	B-2-016	HI-201-4	DG201A	Switch Quad SPST CMOS Analog	Newark
SWITCHES	B-2-076	MAX4615CPD		Switch SPST Quad Hi Speed Low Voltage	
SWITCHES	B-2-076A	MAX4619CP		IC MULTIPLEXER TRPL 1X2 16DIP	Digi-Key
SWITCHES	B-2-077	MAX4616CPD	Non Stock	Switch SPST Quad Hi Speed Low Voltage	
SWITCHES	B-2-087	AD7512DIKN		Dual SPDT Protected Analog Switch	
SWITCHES	B-2-117	SSM2404		Switch Quad Audio	
SWITCHES	N-3-002	BIG RED TWIST		BIG RED TWIST SWITCH- 5" Round Assted Colors	EnableMart
SWITCHES	P-2-001	n/a		PC Mt. 2- SP-ST On- Off 0.4"x0.3" DIP	n/a
SWITCHES	P-2-002	n/a		PC Mt. 4- SP-ST On- Off 0.4"x0.4" DIP	n/a
SWITCHES	P-2-003	n/a		PC Mt. 6- SP-ST On- Off 0.7"x0.4" DIP	n/a
SWITCHES	P-2-004	n/a		PC Mt. 7- SP-ST On- Off 0.8"x0.4" DIP	n/a
SWITCHES	P-2-005	n/a		PC Mt. 8- SP-ST On- Off 0.8"x0.4" DIP	n/a
SWITCHES	P-2-006	n/a		PC Mt. 9- SP-ST On- Off 1.0"x0.4" DIP	n/a
SWITCHES	P-2-007	DTS1212-R		Push Button,TACT,SPST,OFF-(on) 0.5"x0.5"	Jameco
SWITCHES	P-2-008	SW401 B3F-1002		Switch TACT 6MM MOM 150GF	Digi-Key
SWITCHES	P-2-008A	EG1867CT-ND		Switch TACT MOM SMT 4.3MM 160GF	Digi-Key
SWITCHES	P-2-009	52F3550 B3F-1052		Switch TACT MOM SMT 7.3x 6MM 150GF	n/a
SWITCHES	P-2-009A	B3W-1050		Switch TACT MOM SMT 7.3x 6MM 160GF	n/a
SWITCHES	P-2-010	450-1178-ND	FSMRACDA	Switch TACT RA H=6.35mm	Digi-Key
SWITCHES	P-2-011	CKN1580-ND		Switch TACT 6MM MOM SPST H=7.0mm	Digi-Key
SWITCHES	P-2-012	EG2498-ND		Switch TACT 6MM MOM SPST H=13.0mm 100GF	Digi-Key
SWITCHES	P-2-012A	EG1833-ND	TL1105BF160Q	Switch TACT 6MM MOM 160GF	Digi-Key
SWITCHES	P-2-013	SW405-ND	B3F-1052	Switch TACT 6MM MOM 150GF	Digi-Key
SWITCHES	P-2-013A	P8009S	EVQ-PAG04M	6MM Light Touch Switch 250GF	Digi-Key
SWITCHES	P-2-013B	200362		SW,PB,TACT SPST OFF-(on)	Jameco

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SWITCHES	P-2-014	155249		SW,PB,TACT SPST Off-(ON)	Jameco
SWITCHES	P-2-014A	155249		SW,PB,TACT SPST Off-(ON)	Jameco
SWITCHES	P-2-014A	#1489		20 x 6mm Slim Tact Switch 2 pins	Sparkfun
SWITCHES	P-2-015	EG2527CT-ND	TL3301AF260QG/TR	Switch TACT 260GF H=5.0mm SMT	Digi-Key
SWITCHES	P-2-016	450-1157-ND	FSM101	Switch TCAT SPST 12mm MOM N/O	Digi-Key
SWITCHES	P-2-016A	EG1826-ND	TL1100EF160Q	Switch TACT SPST 12mm MOM N/O	Digi-Key
SWITCHES	P-2-017	612-PS1057A	PS1057A-Red	SW SPST 3A MOM PC Mnt	Mouser
SWITCHES	P-2-018	3315Y-1-006-ND		ENCODER 9MM SQ Vertical	Digi-Key
SWITCHES	P-2-019	SW404-ND	B3F-1050	Switch TACT 6mm MOM 100GF	Digi-Key
SWITCHES	P-2-019A	P8009S-ND	EVQ-PAG04M	6MM Light Touch Switch 250GF	Digi-Key
SWITCHES	P-2-019B	1586074		Switch,PB,TACT,SPST,Off-MOM	Panasonic
SWITCHES	P-2-020	n/a		Switch CAP buttons-black	n/a
SWITCHES	P-2-021	GH1364	30-2	SWITCH PB SPST-NC 1A Black	Digi-Key
SWITCHES	P-2-022	EG1881-ND	1R WHT	Switch CAP Round White	Digi-Key
SWITCHES	P-2-022A	EG1882-ND	1R BLK	Switch CAP Round Black	Digi-Key
SWITCHES	P-2-023	17MOM803	Switchs	Switch Blue/ MOM/ Square PC Mnt 0.5"x0.5"	Electronix Express
SWITCHES	P-2-024	106067		SW Toggle, Sub SPDT9On-On) PCB Mnt 4VA	Jameco
SWITCHES	P-2-024A	17TP11FGT-PC-2		SW Toggle, Sub SPDT9On-On) PCB Mnt 4VA	Electronix Express
SWITCHES	P-2-024B	2095100		PC Mount Round	Jameco
SWITCHES	P-2-025	76523		Sw Toggle, On OFF 3A,125VAC 1A 250VAC	Jameco
SWITCHES	P-2-026				
SWITCHES	P-2-027			Sw Toggle , SP-ST 6A 125Vac, 3A 250Vac	Jameco
SWITCHES	P-2-028			Sw Toggle , SP-ST 5A 125Vac, 3A 250Vac White Cap	Jameco
SWITCHES	P-2-029	908-0022		Sw, Rocker, DPST, ON-OFF, 10A,125Vac Round	Allied
SWITCHES	P-2-030	MPA 206R		Pushbutton On Switch H=0.8"	ALCO
SWITCHES	P-2-031	n/a		Panel Mount ,on-off, Push ON,0.7"x 0.75"	n/a
SWITCHES	P-2-032	EG2568		SWITCH PB SPST MOM BLACK	Digi-Key
SWITCHES	P-2-033	EG1931		Switch PB SPST-NC MOM 3A RED	Digi-Key
SWITCHES	P-2-034	n/a		PB PC Mount Slide ,1.0x0.5"	Switchcraft
SWITCHES	P-2-035	109170		PB PC Mount Slide ,0.25"x0.425" on-off	Jameco

CATEGORY	Location	Part_Number	Substitute	Description	Vender
SWITCHES	P-2-036	n/a		ASSORTED	???
SWITCHES	P-2-037	260011E		Switch, Rocker, Black, sq. panel mount, 0.9"x0.9" Snap in,16A	EATON
SWITCHES	P-2-038	GR-2022		Switch, Rocker, Black, sq. panel mount, 0.9"x0.9" Snap in,6A	CW
SWITCHES	P-2-039	SW344-ND		Sw- Rocker SPST 16A BLK/RED	Digi-Key
SWITCHES	P-2-040			Sw-Rocker DP-DT. ON OFF Snap IN Panel Mt. 0.75x0.5"	
SWITCHES	P-2-041	LRA211		Sw-Rocker SP-ST. ON OFF Snap IN Panel Mt. 1.0 x 0.5"	
SWITCHES	P-2-042	260011E		SW-Rocker SP-DT on off Snap In, Panel Mt 0.85x 1.0"	Eaton
SWITCHES	P-2-043	SW305		Rocker Switch SPDT on/off/on BLK	Digi-Key
SWITCHES	P-2-044			push button, panel mount, square, mts in 1/2" hole/120Vac	
SWITCHES	P-2-045	401-1154		Switch Cap Rectangle Red	Digi-Key
SWITCHES	P-2-045A	401-1153-ND		Switch Cap Rectangle Grey	Digi-Key
SWITCHES	P-2-045B	401-1153-ND		Switch Cap Rectangle White	Digi-Key
SWITCHES	P-2-046	401-1902		Switch PB Round Blk MOM SPST NO	Digi-Key
SWITCHES	P-2-047	174414	R13-510A	Switch,PB,STD,SPST,Off-(ON)	JAMECO
SWITCHES	P-2-048	401-1134	PVA1 EE H2	Switch PB DPST ALT ACT 23MM .1A	Digi-Key
SWITCHES	P-2-049			6 PIN DIP IC SWITCH, Rotary	
SWITCHES	P-2-050	SW-3008A		Rocker Switch 15A 125VAC/6A 250VAC ON OFF ON DP	
SWITCHES	P-2-051	401-1161-ND		SWITCH PB SPST W/RED LED	Digi-Key
SWITCHES	P-2-052			Switch MOM ON NO Red Square Panel Mount 0.4x0.5"	
SWITCHES	P-2-053			Switch Bat Handle. Round 1/2" hole Mt. On Off 2A 250VAC	
SWITCHES	P-2-054	EG2419-ND	100DP4T1B1M1QE	Switch Toggle DPDT 5A SDLUG	Digi-Key
SWITCHES	P-2-055	EG1956-ND		Rotary Switch 3 Pole 4 pos LUGS	Digi-Key
SWITCHES	P-2-056	10WA135		ROT 2POL 2-6 POS PCB Rotary Switch	Mouser
SWITCHES	P-2-057	EG1001-ND		Switch RT ANGLE DPDT ALT ACTION	Digi-Key
SWITCHES	P-2-058	EG2547	MTH4UOANAGX	SWITCH PB 4PDT MOMENTARY	Digi-Key
SWITCHES	P-2-058A	EG1102	MTH2UEENAGX	SWITCH PB DPDT MINI RTANG ALTACT	Digi-Key
SWITCHES	P-2-059	89C4238	B32-1060	Keycap actuator caps, multiple colors	Newark
SWITCHES	P-2-060	306-1187	RI-08A	SWITCH REED MAG SPST 15-28AT	Digi-Key
TEMPERATURE CO	B-1-089A	LM3911		LM3911 Temperature Controller IC 14 DIP IC	
TERMINAL BLOCKS	J-2-012	PTERM12W		12 Way Power Terminal Block \$.85	Futurlec

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TERMINAL BLOCKS	J-2-012A	PTERM12W25A		12 Way Power Terminal Block 25A \$1.25	Futurlec
TERMINAL BLOCKS	J-2-013	PTERM12W25AL		12 Way Power Terminal Block 25A Long \$1.45	Futurlec
TERMINAL BLOCKS	J-2-013A	PTERM6W		6 WAY Power Terminal Block	Futurlec
TERMINAL BLOCKS	J-2-014	PTERM6W25A		6 WAY Power Terminal Block 25A	Futurlec
TERMINAL BLOCKS	J-2-014A	PTERM6W25AL		6 WAY Power Terminal Block 25A Long	Futurlec
THERMISTOR	H-2-048	KC011N-ND	Thermistor NTC 25 Oh	THERMISTOR NTC 25OHM	Digi-Key
THERMISTOR	H-2-048A	235-1075-ND	PTC 300 Ohm	THERMISTOR PTC 300 OHM	Digi-Key
THERMISTOR	H-2-049	21T11L		THERMISTOR NTC 1K OHM	Electronix Express
THERMISTOR	H-2-050	KC016N		THERMISTOR NTC 1K OHM @ 25C	Digi-Key
THERMISTOR	H-2-050A	495-2156-ND	B57891M0102J000	THERMISTOR NTC 1K OHM 5% RAD	Digi-Key
THERMISTOR	H-2-051	615-1024		THERMISTOR NTC 10K OHM 1% D0-35	Digi-Key
THERMISTOR	H-2-052	495-2158-ND		THERMISTOR NTC 100K OHM 5% RAD	Digi-Key
THERMOCOUPLE	B-2-027	LT1025ACN8		Thermocouple paired to LTK001	Digi-Key
THYRISTOR	B-3-066	T2850D		Power Thyristors 400V 8A 25-25-25mA	Mouser
THYRISTOR	B-3-098	T106B1		Thyristor, SCR, GP	
THYRISTOR	C-1-107	2N6508GOS		Thyristor SCR 25A 600V	
THYRISTOR	C-2-041	2N6404G		Thyristor, SCR, 600 V, 10 A	Digi-Key
TIMER	A-2-116	TLC555		IC CMOS Timer 8 DIP	
TIMER	A-2-118	TLC552CN		IC CMOS TIMER 14-DIP-- DUAL	Texas Instruments
TIMER	A-3-118	CD4541BCN		Programmable Timer	
TIMER	B-1-030	ICM556IPO		Timer General Purpose Dual	
TIMER	B-1-073	LM3905N		Timer Precision	
TIMER	B-1-076	LM555CN	NE555P	Timer-555- 8 pin DIP , Texas Instruments	Mouser
TIMER	B-1-077	LM556J/CN	NE556N/F	Timer Dual 555	
TIMER	B-1-105	MC1455		Timer	
TIMER	B-1-113	NE558N		Timer Quad	
TIMER	B-2-021	NE555D		IC PRECISION TIMER 8-SOIC AND DIP Texas Instr.	Mouser
TIMER	B-3-018	LMC555CN	TLC555CP	IC TIMER CMOS 8-DIP	Digi-Key
TIMER	B-4-023	MC1455		Timer Circuit	
TOOL KIT	T-1-001			Assorted Tools	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TOOL KIT	T-1-002			Development Tools	Microchip
TOOL KIT	T-2-001A			Assorted Tools	
TOOL KIT	T-2-001B			Assorted Tools	
TOOL KIT	T-3-001			Developer's Kit	Microchip
TOOL KIT	T-3-002			Pedometer	Sport Line
TOOL KIT	T-3-003			Safety Glasses	Condor
TOOL KIT	T-4-001			Development Kit	Cygnal
TOOL KIT	T-4-002			Development Tools	Microchip
TRANSCEIVER	A-3-018	74ALS640		Octal Bus Transceiver (3-State)	
TRANSCEIVER	A-3-019	74ALS646		Octal TRI-STATE Bus Transceiver and Register	
TRANSCEIVER	A-3-044	74F243		Quad transceiver (3-State)	
TRANSCEIVER	A-3-046	74F245		Octal Bidirectional Transceiver with 3-STATE Outputs	
TRANSCEIVER	A-3-050B	74F543		Octal Registered Transceiver	
TRANSCEIVER	A-3-051	74F552		Octal Registered Transceiver with Parity and Flags	
TRANSCEIVER	A-3-052	74F646		Octal Transceiver/Register with 3-STATE Outputs	
TRANSCEIVER	A-3-053	74F652		Transceivers/Registers	
TRANSCEIVER	A-3-071	74ACT245		Octal Bidirectional Transceiver with 3-STATE Inputs/Outputs	
TRANSCEIVER	B-1-038	LM1812N		Transceiver Ultrasonic	
TRANSCEIVER	B-2-030	LTC1485CN8		Transceiver RSR485/422	
TRANSCEIVER	B-2-078	MAX488		Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceivers	
TRANSCEIVER	B-3-033	MCP2551-I/P		IC TRANSCEIVER CAN HI-SPD 8-DIP	Digi-Key
TRANSCEIVER	B-3-053	DP8307N		Octal Three-state Bidirectional Bus Transceiver	
TRANSCVR	A-2-006A	74ABT657ANT	296-4069-5-ND	IC TRANSCVR TRI-ST 16BIT 24DIP	Digi-Key
TRANSISTOR	B-1-009A	BU406FS		TRANSISTOR NPN 200V 7A TO-220	Digi-Key
TRANSISTOR	B-1-012	CA3082		Transistor Array 7 High Current NPN Common Collect	
TRANSISTOR	B-1-013	CA3083		Transistor Array 4 General Purpose NPN	
TRANSISTOR	B-1-014	CA3183AE		Transistor General Purpose BJT NPN 40V 75ma	
TRANSISTOR	B-1-015	CA3086		Transistor Array 3 NPN + 1 Differential Pair	
TRANSISTOR	B-1-048	LM3046	MPQ2222	Transistor Array	
TRANSISTOR	B-1-098	MC1413BP		Transistor Array Darlington Hi V/Hi C	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	B-1-110	MCQ2222		Transistor Array (2N2222) NPN GP	
TRANSISTOR	B-2-010	ULN2001AN		Darlington transistor arrays TTL/CMOS GP	
TRANSISTOR	B-3-065	3N75/3N77/3N78/3		NPN Hi Speed Chopper	
TRANSISTOR	B-3-067	D45E3	NTE264	Trans TO-220 PNP DAR PWR	Mouser
TRANSISTOR	B-3-068	ECG133	NTE133	Trans TO-106 JFET AF AMP	Mouser
TRANSISTOR	B-3-069	ECG218	NTE218	Trans TO-66 PNP Audio Pw	Mouser
TRANSISTOR	B-3-070	HEP246	NTE185	Si Trans PNP, Audio Power Amp, Switch	
TRANSISTOR	B-3-071	HEP247	NTE130	Si Trans NPN, Audio Power Amp, Medium Speed Switch	
TRANSISTOR	B-3-072	HEP248	NTE219	Si Trans PNP, Audio Power Amp, Medium Speed Switch	
TRANSISTOR	B-3-075	2N6259	NTE388	Trans, BJT, NPN, 150 V V(BR) CEO,16 A	Newark
TRANSISTOR	B-3-075A	BUL38D	497-2581-5-ND	TRANSISTOR NPN 450V 10A TO-220	Digi-Key
TRANSISTOR	B-3-077	68P1B	NTE121	Germ PNP Transistor	
TRANSISTOR	B-3-078	2SA252	NTE126	Germ, Mesa Trans, PNP, High-Speed Sw	
TRANSISTOR	B-3-079	MJE1090		Darlington Pw Trans, PNP, Si, Complementary, 5 A, 60-80 V	
TRANSISTOR	B-3-080	MJE1100		Darlington Pw Trans, NPN, Si, Complementary, 5 A, 60-80 V	
TRANSISTOR	B-3-081	MJE1661		Pw Trans, Si, NPN, 15 A, 40-60 V	
TRANSISTOR	B-3-083	MPSA13		Darlington Trans, NPN Si, Sw & Amp	Digi-Key
TRANSISTOR	B-3-084	MPSA14		TRANS NPN DARL BIPO 30V TO-92	Digi-Key
TRANSISTOR	B-3-085	MPSH17		Trans, Bipolar Small Signal & Pw, NPN, RF	Mouser
TRANSISTOR	B-3-086	MPSL51		Trans, PNP, GP Amp	Mouser
TRANSISTOR	B-3-087	PN3563	NTE108	Trans, NPN, RF Amp	Mouser
TRANSISTOR	B-3-088	PN3569		Trans, NPN, GP	Mouser
TRANSISTOR	B-3-089	PN5129		Trans, NPN, Amp, Sw	
TRANSISTOR	B-3-090	PN5139		Trans, PNP, GP, Sw	Mouser
TRANSISTOR	B-3-094	SM633		???	
TRANSISTOR	B-3-094A	MJ4502GOS-ND	MJ4502G	TRANS PWR PNP 30A 100V TO3	Digi-Key
TRANSISTOR	B-3-095	SM634		???	
TRANSISTOR	B-3-096	C2665	NTE390	Trans, NPN, Pw Amp	Mouser
TRANSISTOR	B-3-097	SX3826	NTE229	Trans, OSC IF AMP	Mouser
TRANSISTOR	B-3-099	T1407		Trans, Si, NPN, Power BJT	

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	B-3-100	TIP100		Trans, Bipolar Pw, NPN, 8 A, 60 V	Mouser
TRANSISTOR	B-3-101	TIP110		Trans, Bipolar Pw, NPN, 2 A, 60 V	Mouser
TRANSISTOR	B-3-101A	TIP107		TRANS PNP DARL 100V 8A TO-220	Digi-Key
TRANSISTOR	B-3-102	TIP112		Trans, Bipolar Pw, NPN, 2 A, 100 V	Mouser
TRANSISTOR	B-3-103	TIP117		Trans, Bipolar Pw, PNP, 2 A, 100 V	Mouser
TRANSISTOR	B-3-104	TIP120		Trans, Bipolar Pw, NPN, 5 A, 60 V	Mouser
TRANSISTOR	B-3-107	MJ21195G		Trans, Pw, PNP, 16 A, 250 V, TO3	Digi-Key
TRANSISTOR	B-3-108	MJ211906G		Trans, Pw, NPN, 16 A, 250 V, TO3	Digi-Key
TRANSISTOR	B-3-111	MJE15030G		Trans, Pw, NPN, 8 A, 150 V, TO220AB	Digi-Key
TRANSISTOR	B-3-111A	MJE15032G		Trans, Pw, NPN, 8 A, 250 V, TO220AB	Mouser
TRANSISTOR	B-3-112	MJE15031G		Trans, Pw, PNP, 8 A, 150 V, TO220AB	Digi-Key
TRANSISTOR	B-3-112A	MJE15033G	MJE15033GOS-ND	Trans, Pw, PNP, 8 A, 250 V, TO220AB	Digi-Key
TRANSISTOR	B-3-118	RCA4-490	NTE181	Trans, Si, Hi Pw Audio Amp, NPN	
TRANSISTOR	C-1-001	2N1038	NTE176	Trans BJT,PNP,30V V(BR)CEO,3A I(C),TO-11VAR	NTE
TRANSISTOR	C-1-002	2N1252	NTE128	Trans NPN, Si, AF Preamp, Dr, Vid Amp	NTE
TRANSISTOR	C-1-003	2N1373	NTE102	Trans PNP, Ge Power Output, Driver	NTE
TRANSISTOR	C-1-004	2N1375	NTE102A	Trans PNP, Ge Medium Power Amplifier	NTE
TRANSISTOR	C-1-005	2N1379	NTE102	Trans PNP, Ge, Power Output, Driver	NTE
TRANSISTOR	C-1-006	2N1380	NTE102	Trans PNP, Ge, AF Prearnp, Dr, PO	NTE
TRANSISTOR	C-1-007	2N1381	NTE102	Trans PNP, Ge, AF Prearnp, Dr, PO	NTE
TRANSISTOR	C-1-008	2N1729	NTE100	Trans PNP, Ge, RF/IF Amp, Osc, Mxr, AM	NTE
TRANSISTOR	C-1-010	2N2160	NTE6400A	Trans Unijunction, Si	NTE
TRANSISTOR	C-1-011	2N217	NTE102A	Trans PNP, Ge, AF Preamp, Dr, PO	NTE
TRANSISTOR	C-1-012	2N222A	NTE102A	(PNP) Medium Power Amplifier Germanium	NTE
TRANSISTOR	C-1-013	2N2374			
TRANSISTOR	C-1-014	2N243			
TRANSISTOR	C-1-015	2N2564			
TRANSISTOR	C-1-016	2N2635			
TRANSISTOR	C-1-017	2N2644			
TRANSISTOR	C-1-018	2N2646		Unijunction Transistor	Newark

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	C-1-019	2N2806			
TRANSISTOR	C-1-020	2N2857			
TRANSISTOR	C-1-021	2N2862			
TRANSISTOR	C-1-022	2N29			
TRANSISTOR	C-1-023	2N2907		PNP	
TRANSISTOR	C-1-024	2N2905			
TRANSISTOR	C-1-025	2N5089			
TRANSISTOR	C-1-026	2N2944			
TRANSISTOR	C-1-027	2N3055		TRANSISTOR NPN 60V 15A TO-3	Mouser
TRANSISTOR	C-1-028	2N321			
TRANSISTOR	C-1-029	2N327A			
TRANSISTOR	C-1-030	2N3299			
TRANSISTOR	C-1-031	2N3371			
TRANSISTOR	C-1-032	2N3563			
TRANSISTOR	C-1-033	2N3643			
TRANSISTOR	C-1-034	2N3703			
TRANSISTOR	C-1-035	2N3706			
TRANSISTOR	C-1-036	2N3710			
TRANSISTOR	C-1-037	2N3711			
TRANSISTOR	C-1-038	2N3712			
TRANSISTOR	C-1-039	2N3713			
TRANSISTOR	C-1-042	2N3789			
TRANSISTOR	C-1-043	2N3798			
TRANSISTOR	C-1-044	2N3820			
TRANSISTOR	C-1-045	2N3826			
TRANSISTOR	C-1-046	2N963			
TRANSISTOR	C-1-047	2N964			
TRANSISTOR	C-1-048	2N967			
TRANSISTOR	C-1-048A	FGPN60LS		IGBT- Insulated Gate Bipolar Transistor 600V 10A	Newark
TRANSISTOR	C-1-049	2N3827			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	C-1-050	2N3839			
TRANSISTOR	C-1-051	2N3904	2N2222AP	Trans NPN SS GP 200mA TO-92 Package	Digi-Key
TRANSISTOR	C-1-052	2N3906	2N222	TRAN PNP SS GP 200mA TO-92	Digi-Key
TRANSISTOR	C-1-053	2N3913			
TRANSISTOR	C-1-054	2N404			
TRANSISTOR	C-1-055	2N4060			
TRANSISTOR	C-1-056	2N408	SK3004	T-PNP, Ge, AF Preamp, Dr, PO	
TRANSISTOR	C-1-057	2N4120			
TRANSISTOR	C-1-058	2N428			
TRANSISTOR	C-1-059	2N4126			
TRANSISTOR	C-1-060	2N5060			
TRANSISTOR	C-1-061	2N4400			
TRANSISTOR	C-1-062	2N4304			
TRANSISTOR	C-1-063	2N4351			
TRANSISTOR	C-1-064	2N4401			
TRANSISTOR	C-1-065	2N4402			
TRANSISTOR	C-1-066	2N4403		TRANS PNP SS GP 600mA TO-92	Digi-Key
TRANSISTOR	C-1-067	2N4416			
TRANSISTOR	C-1-068	2N4912			
TRANSISTOR	C-1-069	2N4919			
TRANSISTOR	C-1-070	2N5062			
TRANSISTOR	C-1-071	2N5064			
TRANSISTOR	C-1-072	2N5089		TRANS NPN GP SS 50MA 25V TO92	Digi-Key
TRANSISTOR	C-1-073	2N5220	MPS6521	TRANS NPN SS 25V LN TO92	
TRANSISTOR	C-1-074	2N5221	MPS6523	T-PNP, Si, AF PO, Pd 0.6 W	
TRANSISTOR	C-1-075	2N527			
TRANSISTOR	C-1-076	2N5302			
TRANSISTOR	C-1-077	2N5306			
TRANSISTOR	C-1-078	2N5457	E102	JFET-N-Ch, Gen Purp Amp/Sw	
TRANSISTOR	C-1-079	2N6724			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	C-1-080	2N5400			
TRANSISTOR	C-1-081	2N5485			
TRANSISTOR	C-1-082	2N5486			
TRANSISTOR	C-1-083	2N5884			
TRANSISTOR	C-1-084	2N5652			
TRANSISTOR	C-1-085	2N5886			
TRANSISTOR	C-1-086	2N591	2N109	T-PNP, Ge, AF Preamp, Dr, PO	
TRANSISTOR	C-1-087	2N5913			
TRANSISTOR	C-1-088	2N6044			
TRANSISTOR	C-1-089	S6008R		SCR NON-SENSITIVE GATE 8A 600V	
TRANSISTOR	C-1-090	2N6101			
TRANSISTOR	C-1-091	2N6387			
TRANSISTOR	C-1-092	2N7000		MOSFET N-CH 60V 200MA TO-92	Digi-Key
TRANSISTOR	C-1-093	2N711			
TRANSISTOR	C-1-094	2N718			
TRANSISTOR	C-1-095	2N753			
TRANSISTOR	C-1-096	2N78			
TRANSISTOR	C-1-097	2N703		T-NPN, Si, AF/RF Amp	
TRANSISTOR	C-1-098	2N918			
TRANSISTOR	C-1-099	2N929			
TRANSISTOR	C-1-100	2N956			
TRANSISTOR	C-1-101	2N962			
TRANSISTOR	C-1-102	2N1305	GA323	T-PNP, Ge, AF Prearnp, Dr, PO	
TRANSISTOR	C-1-103	2N1306	GA325	T-NPN, Ge, RF/IF Amp, Osc, Mxr, AM	
TRANSISTOR	C-1-104	2N834	2N3946/MS15521	T-BJT,NPN,40V V(BR)CEO,200MA I(C),TO-18	
TRANSISTOR	C-1-105	2N389	GA681	Transistors; Bipolar; Si NPN Power	
TRANSISTOR	C-1-108	ZTX1051A	ZTX1053A	NPN 40V 5000ma TO92-3 (ZTX1053A is 75V, 3000MA TO92-3 Package)	Digi-Key
TRANSISTOR	C-1-108A	ZTX1053A	ZTX1053A	(ZTX1053A is 75V, 3000MA TO92-3 Package)	Digi-Key
TRANSISTOR	C-1-109	ZTX688B		Trans NPN 12V 3000ma TO92-3 Package	Digi-Key
TRANSISTOR	C-1-110	ZTX788A	ZTX788A-ND	PNP HG -15V -3000ma TO92-3	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	C-1-111	ZTX857		TRANS NPN 300V 5000ma MED TO92-3 Package	Mouser
TRANSISTOR	C-1-112	2N6070A			
TRANSISTOR	C-1-113	SM156838			
TRANSISTOR	C-1-115	2N1204	GMO947		
TRANSISTOR	C-1-116	GA322	2N1039		
TRANSISTOR	C-1-118	ZTX1049A		Transistor NPN 30V 4000mA	Digi-Key
TRANSISTOR	C-1-119	2N960	SM1296		
TRANSISTOR	C-2-001	TIP121		Trans, NPN Darlington, 80 V, 5 A	Digi-Key
TRANSISTOR	C-2-002	TIP125		Trans, PNP Darlington, 60 V, 5 A	Digi-Key
TRANSISTOR	C-2-003	TIP29CG		Trans, NPN, 100 V, 1 A, 30W	Digi-Key
TRANSISTOR	C-2-004	TIP30C		Trans, PNP, 100 V, 1 A	Digi-Key
TRANSISTOR	C-2-005	TIP31A	TIP31C	TRANSISTOR NPN 60V 3A TO-220	Digi-Key
TRANSISTOR	C-2-006	TIP31C		Trans, NPN Hi Pwr, 100 V, 3 A	Digi-Key
TRANSISTOR	C-2-007	TIP32		Trans, PNP GP, 40 V, 3A	Mouser
TRANSISTOR	C-2-008	TIP32C		Trans, PNP Hi Pwr, 100 V, 3 A	Digi-Key
TRANSISTOR	C-2-009	TIP41A		Trans, NPN, 60 V, 6 A	Digi-Key
TRANSISTOR	C-2-010	TIP42C		Trans, PNP GP, 100 V, 6 A	Digi-Key
TRANSISTOR	C-2-011	TIP127		Trans, PNP Darlinton, 100 V, 5 A	Digi-Key
TRANSISTOR	C-2-012	TIP48		Trans, NPN GP, 300 V, 1 A	Digi-Key
TRANSISTOR	C-2-013	TIP29A		Trans, NPN GP, 100 V, 1 A	Mouser
TRANSISTOR	C-2-014	TIP30A		Trans, PNP GP, 60 V, 1 A	Jameco
TRANSISTOR	C-2-026	ZTX1055A		Trans, NPN, 120 V 3 A	Digi-Key
TRANSISTOR	C-2-030	TIXM101	NTE160	Trans, Germ PNP, RF IF Amp, FM Mixer OSC	Mouser
TRANSISTOR	C-2-032	MJE200		Trans, Pwr NPN, 25 V, 5 A	Digi-Key
TRANSISTOR	C-2-033	MJE210		Trans, Pwr PNP, 25 V, 5 A	Digi-Key
TRANSISTOR	C-2-034	2SD14990P		Trans, LF NPN, 100 V, 5 A	Digi-Key
TRANSISTOR	C-2-059	2N5192GOS		Trans, NPN Pwr GP, 80 V, 4 A	Digi-Key
TRANSISTOR	C-2-079	ZTX869		Trans, NPN, 25 V, 5 A	Digi-Key
TRANSISTOR	C-2-080	2N6125		Trans, BJT, PNP 60 V, 4 A	Mouser
TRANSISTOR	C-2-081	2SC1114	NTE94	Trans, Si NPN	NTE

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRANSISTOR	C-2-082	2SC792	NTE162	Trans, Si NPN	NTE
TRANSISTOR	C-2-083	2SC782		Obsolete	
TRANSISTOR	C-2-083A	NTE64		T-NPN,Si,UHF,Microwave,High Speed Switch	Digi-Key
TRANSISTOR	C-2-087	MPSH10		Trans, NPN, RF VHF/UHF	Digi-Key
TRANSISTOR	C-2-088	TIS51	NTE123AP	Trans, Si NPN, Audio Amp	NTE
TRANSISTOR	C-2-089	TIS38	NTE159	Trans, Si PNP, Audio Amp	NTE
TRANSISTOR	C-2-090	TIS83	NTE123AP	Trans, Si NPN, Audio Amp	NTE
TRANSISTOR	C-2-093	TIS87	NTE107	Trans, Si NPN, UHF Oscillator for Tuner	NTE
TRANSISTOR	C-2-098	ZTX956		Trans, PNP Neg 200 V, 2 A	Digi-Key
TRANSISTOR	C-2-101	NTE132		Trans, N Chan, JFET, MXR	Mouser
TRANSISTOR	C-2-102	NTE397		Trans, PNP Pwr Amp, Sw	Mouser
TRANSISTOR	C-2-103	2N2222A	NTE123A	Trans, NPN, 75 V, 600 ma	Digi-Key
TRANSISTOR	C-2-103A	TPN2222A	NTE123A/11PN2222	Trans, NPN, 75 V, 600 ma	Electronix Exp
TRANSISTOR	C-2-104	ZTX1151A		Trans PNP Neg, 40 V, 3 A	Digi-Key
TRANSISTOR	C-2-107	BC547BG	BC547BGOS-ND	Trans, NPN GP, 45 V, 100 ma	Digi-Key
TRANSISTOR	C-2-118	BC184L		Trans, NPN 30 V, 500 ma	Digi-Key
TRANSISTOR	C-2-119	FJP5321		Trans, NPN, 500 V, 5 A	Digi-Key
TRANSISTOR	C-2-121	ZTX849	ZTX849-ND	Transistor NPN 30V 5000MA TO92-3	Digi-Key
TRANSISTOR	C-2-122	ZTX949	ZTX949-ND	Transistor PNP 30V 4500MA TO92-3 Compliment to ZTX849	Digi-Key
TRANSISTOR	C-2-89A	NTE159	TIS38	PNP Transistor, Si, Audio to VHF, TO-92, 80V, 5V, 1A	Mouser
TRANSMITTER	A-3-093	MC14457		REMOTE-CONTROL TRANSMITTER/ENCODER	
TRANSMITTER/REC	A-3-099B	INS8250N		UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITTER	
TRANSMITTER/REC	A-3-100A	COM2601		Universal Synchronous Receiver / Transmitter USRT	
TRIAC	C-2-049	Q2015L5		Triac Isolate, 200 V, 15 A	Digi-Key
TRIM POT	H-2-121	200 OHM 1/4W			
TRIM POT	H-2-122	300 OHM 1/4W			
TRIM POT	H-2-123	500 OHM 1/4W			
TRIM POT	H-2-124	1K OHM 1/4W			
TRIM POT	H-2-125	2K OHM 1/4W			
TRIM POT	H-2-126	5K OHM 1/4W			

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRIM POT	H-2-127	10K OHM 1/4W			
TRIM POT	H-2-128	20K OHM 1/4W			
TRIM POT	H-2-129	50K OHM 1/4W			
TRIM POT	H-2-130	100K OHM 1/4W			
TRIM POT	H-2-131	200K OHM 1/4W			
TRIM POT	H-2-132	500K OHM 1/4W			
TRIM POT	H-2-133	1M OHM 1/4W			
TRIM POT	H-2-134	2M OHM 1/4W			
TRIMMER CAPACIT	F-2-001	SG2011CT-ND		6.5-30PF SMD 4X4 .5MM TOP-GREEN	Digi-Key
TRIMMER CAPACIT	F-2-002	SG1002-ND		2.8-10PF TOP ADJ 5MM TRIM-WHITE	Digi-Key
TRIMMER CAPACIT	F-2-003	SG1024-ND		7.5-30PF TOP ADJ 4X4 .5MM-GREEN	Digi-Key
TRIMMER CAPACIT	F-2-003A	SG1029-ND		3.5-10PF TOP ADJ 4X4 .5MM-WHITE	Digi-Key
TRIMMER CAPACIT	F-2-004	SG3011-ND		9-100PF TOP/BOT ADJ 10MM-VIOLET	Digi-Key
TRIMMER CAPACIT	F-2-004A	SG3011-ND		CAP 10MM 9-100PF TOP/BT ADJ VIO	Digi-Key
TRIMMER CAPACIT	F-2-005	SG3008-ND		CAP 10MM 3.0-40PF TOP/BOT ADJ CL	Digi-Key
TRIMMER CAPACIT	F-2-006	SG3009-ND		CAP 10MM 4.5-65PF TOP/BOT ADJ YW	Digi-Key
TRIMMER CAPACIT	F-2-007	SG3014-ND		CAP 10MM 10-180PF-TOP/BOT ADJ OR	Digi-Key
TRIMMER CAPACIT	F-2-007A			ASSORTED TRIMMER CAPACITORS	
TRIMMER CAPACIT	F-2-008	2807S505-ND		TRIMMER CAP SMT .3 TO 5PF ORNG	Digi-Key
TRIMMER CAPACIT	F-2-009	490-1975-ND		CAP 6.0-50.0PF 6MM TOPADJ ORG	Digi-Key
TRIMMER CAPACIT	F-2-010			50-115PF	
TRIMMER CAPACIT	F-2-011			20-175PF	
TRIMMER CAPACIT	F-2-012			5-10PF	
TRIMMER CAPACIT	F-2-013			1-40PF	
TRIMMER CAPACIT	F-2-014			.6-.17NF	
TRIMMER CAPACIT	F-2-015			.01-.055NF	
TRIMMER CAPACIT	F-2-016				
TRIMMER CAPACIT	F-2-017				
TRIMMER CAPACIT	F-2-018				
TRIMMER CAPACIT	F-2-019				

CATEGORY	Location	Part_Number	Substitute	Description	Vender
TRIMMER CAPACIT	F-2-020				
UART	A-3-101A	IM6402		UART-USART Circuit - UART, 8-Bit bus interface	
VOICE REC/PLAY	A-3-027	ISD4002-120P		IC Voice REC/Play 120S 28-DIP	Digi-Key
VOICE REC/PLAY	A-3-102	ISD17240PY	ISD17240PY-ND	IC VOICE REC/PLAY 240SEC 28-DIP	Digi-Key
VOICE REC/PLAY	A-3-102B	ISD1760PY	ISD1760PY-ND	IC VOICE REC/PLAY 60SEC 28-DIP	Digi-Key
VOLATGE-REG	C-2-052	LM338T		V Reg, Adj Pos Output Max:37 V, 5 A	Digi-Key
VOLATGE-REG	C-2-053	LM317MTG		V Reg, Adj Pos Output Max:37 V, 500 ma	Digi-Key
VOLATGE-REG	C-2-054	L7805CT		V Reg, Adj Pos Output Max:35 V, 1 A	Digi-Key
VOLATGE-REG	C-2-055	LM2937ET-10	NTE1953	V Reg, LDO Pos, 10 V, 500 ma	Digi-Key
VOLATGE-REG	C-2-056	L78M12CV		V Reg, Pos, 12 V, 500 ma	Digi-Key
VOLATGE-REG	C-2-057	LD1086V33		V Reg, LDO POS, 3.3 V, 1.5 A	Digi-Key
VOLATGE-REG	C-2-058	UA78M05CKC		V Reg, LDO POS, 5.0 V, 1.5 A	Digi-Key
VOLTAGE REFEREN	B-4-019	LM385		Micropower Voltage Reference	
VOLTAGE-REG	B-1-066	LM3578AN		Regulator Voltage 50V	
VOLTAGE-REG	B-2-005	TL497CAN		Regulator Voltage	
VOLTAGE-REG	B-2-006	TL7702ACP		Sensor Voltage Supervisory Circuit	
VOLTAGE-REG	B-2-034	MAX6241	MAX6341	Voltage Reference - 4.096V output	
VOLTAGE-REG	B-2-035	MAX6250	MAX6350	Voltage Reference - 5.000V output	
VOLTAGE-REG	B-2-036	MAX663	MAX664	Dual Mode 5V Programmable Micropower Voltage Regulator	
VOLTAGE-REG	B-2-037	MAX666		Dual Mode 5V Programmable Micropower Voltage Regulator	
VOLTAGE-REG	B-2-041	MAX749		Digitally Adjustable LCD Bias Supply	
VOLTAGE-REG	B-2-044	MAX757		2.7V to 5.5V adjustable output voltage	
VOLTAGE-REG	B-2-046	MAX874	MAX6029	Low-Dropout, Precision Voltage Reference	
VOLTAGE-REG	B-3-038	ICL7673CPA	Re-Charging	IC,POWER SUPPLY SWITCHING CIRCUIT,CMOS,DIP,8PIN,PL	Digi-Key
VOLTAGE-REG	B-3-113	7912K	SG7912K	V Reg, Neg 12 V, 1.5 A	Elect Express
VOLTAGE-REG	B-3-114	7912K	SG7912K	V Reg, Neg 12 V, 1.5 A	Elect Express
VOLTAGE-REG	B-3-115	L7812CT	SG7812K	V Reg, Pos 12 V, 1.5 A	Elect Express
VOLTAGE-REG	B-3-116	7812K	SG7812K:UA7812CV	V Reg, Pos 12 V, 1.5 A	Elect Express
VOLTAGE-REG	B-3-119	LM350K		V Reg, Adj: 1.2-33 V	Mouser
VOLTAGE-REG	B-3-120	LM350K		V Reg, Adj: 1.2-33 V	Mouser

CATEGORY	Location	Part_Number	Substitute	Description	Vender
VOLTAGE-REG	C-1-106	LM350K		IC VOLTAGE REG ADJ 3A TO-3	
VOLTAGE-REG	C-2-038	LM338T	LM338T-ND	V Reg, Adj Pos Output Max:37V, 5 A TO 220-3	Digi-Key
VOLTAGE-REG	C-2-042	UA7805CKCS		V Reg, Pos, 5 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-044	LM337KC		V Reg, Adj Neg Output Max:-37 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-045	LM7805CT		V Reg, Pos 5 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-048	LD1086V33		V Reg, LDO Pos, 3.3 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-050	LM317TG		V Reg, Adj Pos Output Max:37 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-060	LM1084IT		V Reg, LDO Pos, 5 V, 5A FIXED	Digi-Key
VOLTAGE-REG	C-2-063	LM7812CT		V Reg, Pos, 12 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-064	TL780-05CKC		V Reg, Pos, 5 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-065	LM350T		V Reg, Adj Pos Output Max:33 V, 3 A	Digi-Key
VOLTAGE-REG	C-2-066	L4931CV50		V Reg, LDO Pos, 5 V, 250 ma	Digi-Key
VOLTAGE-REG	C-2-085	NJU7222L30		V Reg, Pos 3 V, 100 ma	Digi-Key
VOLTAGE-REG	C-2-095	UA7805CKCS		V Reg, Pos, 5 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-097	MC7806CT		V Reg, Pos, 6 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-106	L78S10CV		V Reg, Pos, 10 V, 2 A	Digi-Key
VOLTAGE-REG	C-2-108	L7815-K		V Reg, Pos 15 V, 1A	Digi-Key
VOLTAGE-REG	C-2-109	L7905-K	ML 7905A	V Reg, Neg 5 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-110	L7915-K		V Reg, Neg 15 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-110A	KA7905	KA7905-ND	IC REGULATOR 1A -5V 4% TO-220	Digi-Key
VOLTAGE-REG	C-2-111	L7915-K		V Reg, Neg 15 V, 1 A	Digi-Key
VOLTAGE-REG	C-2-111A	UA7912C	LM7912CT	IC VOLT REG NEG 12V 1.5A TO-220	Digi-Key
VOLTAGE-REG	C-2-112	L7806-T		V Reg, Pos 6 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-112A	L7809CV		IC REGULATOR POS 9V TO-220	Digi-Key
VOLTAGE-REG	C-2-113	LM7915CT		V Reg, Neg 15 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-114	L7805-T	L7805CV	V Reg, Pos 5 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-114A	L78S05CV	497-1468-5-ND	IC REG POS 2A 5V TO-220	Digi-Key
VOLTAGE-REG	C-2-115	L7815-T		V Reg, Pos 15 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-116	L7905-T	L7905C	V Reg, Neg 5 V, 1.5 A	Digi-Key
VOLTAGE-REG	C-2-117	KA7924		V Reg, Neg 24 V, 1 A	Mouser

CATEGORY	Location	Part_Number	Substitute	Description	Vender
VOLTAGE-REG	C-2-120	UA78M33C	UA78M33CKCS	trans,3.3 Volt 3POS, To-220 Case	Digi-Key
VOLTAGE-REG	C-2-120A	L78L33ACV	497-7288-ND	IC REG POS 100MA 3.3V TO-92	Digi-Key
VOLTAGE-REG	C-2-120B	LP2950ACZ-3.3	1323397	3.3V Low Power Voltage Regulator TO-92	Jameco
VOLTAGE-REG	C-2-120C	KA278R33CTUFS-N		IC REG LDO 2A 3.3V T0-220FL-4	Digi-Key
VOLTAGE-REG	C-2-57A	MCP1825S-1202E/A		IC LDO REG 500mA 1.2 V, TO220-3, POS FIXED, 2.1-6V IN,1.2OUT	Digi-Key
VOLTAGE-REG	C-2-64A	LM323T		IC VREG 3A ADJ 3TERM TO-220	Digi-Key
ZENER DIODE	C-3-027	1N4728		ZENER, 1 W, 3.3 V	Digi-Key
ZENER DIODE	C-3-028	1N4729		ZENER, 1 W, 3.6 V	Digi-Key
ZENER DIODE	C-3-029	1N4730		ZENER, 1 W, 3.9 V	Digi-Key
ZENER DIODE	C-3-030	1N4731		ZENER, 1 W, 4.3 V	Digi-Key
ZENER DIODE	C-3-031	1N4732		ZENER, 1 W, 4.7 V	Digi-Key
ZENER DIODE	C-3-032	1N4733		ZENER, 1 W, 5.1 V	Digi-Key
ZENER DIODE	C-3-033	1N4734		ZENER, 1 W, 5.6 V	Digi-Key
ZENER DIODE	C-3-034	1N4735		ZENER, 1 W, 6.2 V	Digi-Key
ZENER DIODE	C-3-035	1N4736		ZENER, 1 W, 6.8 V	Digi-Key
ZENER DIODE	C-3-036	1N4737		ZENER, 1 W, 7.5 V	Digi-Key
ZENER DIODE	C-3-037	1N4738		ZENER, 1 W, 8.2 V	Digi-Key
ZENER DIODE	C-3-038	1N4739		ZENER, 1 W, 9.1 V	Digi-Key
ZENER DIODE	C-3-039	1N4740		ZENER, 1 W, 10 V	Digi-Key
ZENER DIODE	C-3-040	1N4741		ZENER, 1 W, 11 V	Digi-Key
ZENER DIODE	C-3-041	1N4742		ZENER, 1 W, 12 V	Digi-Key
ZENER DIODE	C-3-042	1N4743		ZENER, 1 W, 13 V	Digi-Key
ZENER DIODE	C-3-043	1N4744		ZENER, 1 W, 15 V	Digi-Key
ZENER DIODE	C-3-044	1N4745		ZENER, 1 W, 16 V	Digi-Key
ZENER DIODE	C-3-045	1N4746		ZENER, 1 W, 18 V	Digi-Key
ZENER DIODE	C-3-046	1N4747		ZENER, 1 W, 20 V	Digi-Key
ZENER DIODE	C-3-047	1N4748		ZENER, 1 W, 22 V	Digi-Key
ZENER DIODE	C-3-048	1N4749		ZENER, 1 W, 24 V	Digi-Key
ZENER DIODE	C-3-049	1N4750		ZENER, 1 W, 27 V	Digi-Key
ZENER DIODE	C-3-050	1N4751		ZENER, 1 W, 30 V	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
ZENER DIODE	C-3-051	1N4752		ZENER, 1 W, 33 V	Digi-Key
ZENER DIODE	C-3-052	1N4753		ZENER, 1 W, 36 V	Digi-Key
ZENER DIODE	C-3-053	1N4754		ZENER, 1 W, 39 V	Digi-Key
ZENER DIODE	C-3-054A	1N5225B		ZENER, 500 mw, 3.0 V	Digi-Key
ZENER DIODE	C-3-055	1N5226		ZENER, 500 mw, 3.3 V	Digi-Key
ZENER DIODE	C-3-056	1N5227		ZENER, 500 mw, 3.6 V	Digi-Key
ZENER DIODE	C-3-057	1N5228		ZENER, 500 mw, 3.9 V	Digi-Key
ZENER DIODE	C-3-058	1N5229		ZENER, 500 mw, 4.3 V	Digi-Key
ZENER DIODE	C-3-059	1N5230		ZENER, 500 mw, 4.7 V	Digi-Key
ZENER DIODE	C-3-060	1N5231	1N751A	ZENER, 500 mw, 5.1 V	Digi-Key
ZENER DIODE	C-3-061	1N5232		ZENER, 500 mw, 5.6 V	Digi-Key
ZENER DIODE	C-3-062	1N5233		ZENER, 500 mw, 6.0 V	Digi-Key
ZENER DIODE	C-3-063	1N5234		ZENER, 500 mw, 6.2 V	Digi-Key
ZENER DIODE	C-3-064	1N5235		ZENER, 500 mw, 6.8 V	Digi-Key
ZENER DIODE	C-3-065	1N5236		ZENER, 500 mw, 7.5 V	Digi-Key
ZENER DIODE	C-3-066	1N5237	BZX79-C8V2	ZENER, 500 mw, 8.2 V	Digi-Key
ZENER DIODE	C-3-067	1N5238		ZENER, 500 mw, 8.7 V	Digi-Key
ZENER DIODE	C-3-068	1N5239		ZENER, 500 mw, 9.1 V	Digi-Key
ZENER DIODE	C-3-069	1N5240		ZENER, 500 mw, 10 V	Digi-Key
ZENER DIODE	C-3-070	1N5241		ZENER, 500 mw, 11 V	Digi-Key
ZENER DIODE	C-3-071	1N5242		ZENER, 500 mw, 12 V	Digi-Key
ZENER DIODE	C-3-072	1N5243		ZENER, 500 mw, 13 V	Digi-Key
ZENER DIODE	C-3-073	1N5244		ZENER, 500 mw, 14 V	Digi-Key
ZENER DIODE	C-3-074	1N5245		ZENER, 500 mw, 15 V	Digi-Key
ZENER DIODE	C-3-075	1N5246		ZENER, 500 mw, 16 V	Digi-Key
ZENER DIODE	C-3-076	1N5247		ZENER, 500 mw, 17 V	Digi-Key
ZENER DIODE	C-3-077	1N5248		ZENER, 500 mw, 18 V	Digi-Key
ZENER DIODE	C-3-078	1N5249		ZENER, 500 mw, 19 V	Digi-Key
ZENER DIODE	C-3-079	1N5250		ZENER, 500 mw, 20 V	Digi-Key
ZENER DIODE	C-3-080	1N5251		ZENER, 500 mw, 22 V	Digi-Key

CATEGORY	Location	Part_Number	Substitute	Description	Vender
ZENER DIODE	C-3-081	1N5252		ZENER, 500 mw, 24 V	Digi-Key
ZENER DIODE	C-3-082	1N5253		ZENER, 500 mw, 25 V	Digi-Key
ZENER DIODE	C-3-083	1N5254		ZENER, 500 mw, 27 V	Digi-Key
ZENER DIODE	C-3-084	1N5255		ZENER, 500 mw, 28 V	Digi-Key
ZENER DIODE	C-3-085	1N5256		ZENER, 500 mw, 30 V	Digi-Key
ZENER DIODE	C-3-086	1N5257		ZENER, 500 mw, 33 V	Digi-Key
ZENER DIODE	C-3-087	1N5258		ZENER, 500 mw, 36 V	Digi-Key
ZENER DIODE	C-3-087A	1N5259B		ZENER, 500 mw, 39 V	Digi-Key
ZENER DIODE	C-3-088	1N5363		ZENER, 5 W, 30 V	Digi-Key
ZENER DIODE	C-3-089	1N5372		ZENER, 5 W, 62 V	Mouser
ZENER DIODE	C-3-091	1N2831		ZENER, 50 W, 51 V	
ZENER DIODE	C-3-092	1N3048	NTE5100	ZENER, 1 W, 150 V	Mouser
ZENER DIODE	C-3-097	1N753		ZENER, 500 mw, 6.2 V	Digi-Key
ZENER DIODE	C-3-116	1N305	AA305	ZENER, Diode, 180 V	
ZENER DIODE	C-3-117	1N2820		ZENER, Diode, 24 V	