







Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor 100 nF +/- 10% 50 V 0603	Chip Capacitor, 100 nF, +/- 10%, 50 V,	C1, C7, C8, C9, C10, C12, C13, C14, C15	CAPC1608X90X40NL1 0T20	CMP-001-00017-6	
Capacitor 1µF +/-0.1%	0603 (1608 Metric) Chip Capacitor, 1μF +/-0.1%, 25V, 0603.	C2, C6, C11		CLAD OOL COOFF 4	
25V 0603	+7-0.1%, 25V, 0603, Thickness 1 mm CAP ALUM 10UF 20%		CAPC0603(1608)100_L		
EEEFK1E100R	25V SMD LED GREEN CLEAR	C3, C4, C5	FP-FKB-MFG FP-LTST-C193KGKT-	CMP-05427-000055-1	
LTST-C193KGKT-5A	CHIP SMD	D1, D3	5A-MFG	CMP-2000-06622-2	
LTST-C193KRKT-5A	LED RED CLEAR CHIP SMD	D2, D4	FP-LTST-C193KRKT-5A MFG	CMP-2000-06623-2	
1N5819HW-7-F	DIODE SCHOTTKY 40V 1A SOD123	D5, D6	FP-SOD123-IPC_A	CMP-0303-00003-3	
BZX84C3V3LT1G	Zener Voltage Regulator, 225 mW, 3- Pin SOT-23, Pb-Free, Tape and Reel	D7	ONSC-SOT-23-3-318- 08_V	CMP-1060-01189-1	
BZX84C12LT1G	Zener Voltage Regulator, 225 mW, 3- Pin SOT-23, Pb-Free, Tape and Reel	D8, D9	ONSC-SOT-23-3-318- 08_V	CMP-1060-00857-1	
1N4148WT	High Conductance Fast Switching Diode, 75 V, -55 to 150 degC, 2-Pin SOD523F, RoHS	D10	FAIR-SOD-523F-2_V	CMP-0881-00001-1	
BZX84C36LT1G	Zener Voltage Regulator, 225 mW, 3- Pin SOT-23, Pb-Free, Tape and Reel	D11	ONSC-SOT-23-3-318- 08_V	CMP-1060-01178-1	
TEENSY_4.0	Integrated Circuit	IC1	TEENSY40 DIP794W53P254L959	TEENSY_4.0	
LM331N_NOPB	Integrated Circuit	IC2, IC3	H508Q8N	LM331N_NOPB	
0705430003	Connector	J1	SHDR4W64P0X254_1X 4_1271X660X1181P	0705430003	
0705430001	Connector	J2	SHDR2W64P0X254_1X 2_737X660X1181P	0705430001	
T77S1D3-12	RELAY GEN PURPOSE	K1	FP-T77S1D3-12-MFG	CMP-03396-000213-1	
G2RG-2A-X_DC12	SPST 3A 12V Relay or Contactor	K2	G2RG2AXDC12	G2RG-2A-X_DC12	
43045-0812	3 mm Pitch Micro-Fit 3.0 Connector, 17.27 mm Mated Height, Vertical, Through Hole, 8 Circuits, -40 to 105 degC, RoHS, Tray	P1	MOLX-43045-0812_V	CMP-1594-00003-1	
61300411821	THT Vertical Socket Header WR-PHD, Pitch 2.54 mm, Single Row, 4 pins	P2	61300411821	CMP-1502-01316-1	
SPAN02A-12 SSM3K56FS.LF	Power Supply MOSFET (N-Channel)	PS1 Q1, Q2	SPAN02A12 1SS423	SPAN02A-12 SSM3K56FS.LF	
10K		R1	RESC1608X55X30ML1 5T15	CMP-2000-00318-1	
RN73C2A200RBTD	SMD Chip Resistor, Thin Film, 200Ω, 100 V, 0805 [2012 Metric], 100 mW, 0.1%, RN73 Series	R2, R3, R4, R5	FP-RN732A-MFG	CMP-03211-010956-1	
20k		R6	RESC1608X55X30ML1 5T15	CMP-2000-00318-1	
6.8k		R7	RESC1608X55X30ML1	CMP-2000-00318-1	
ERJ3EKF1002V	Chip Resistor, 10 KOhm, +/- 1%, 0.1 W, 55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R8, R9, R10, R11, R12, R14, R17, R18, R19, R25, R27, R30, R31, R32	ST15 RESC1609X55X30LL15 T15	CMP-1012-00623-3	
510k	rape and recei	R13, R15, R16, R21, R23, R26, R28, R29,	RESC2013X60X40NL20	CMP-2001-00651-1	
39k		R34, R37 R20	RESC2013X60X40LL20	CMP-2001-00636-1	
DR	Chip Resistor, 0 Ohm, 0.125 W, -55 to 125 degC, 0805 (2012 Metric), RoHS, Tape	R22, R24, R35, R36, R38	T25 RESC2013X65X40LL15 T20	CMP-2001-00636-1	
	and Reel		RESC2013X60X40LL20		
ERA6AEB393V 10k ohm	Chip Resistor, 220 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS,	R39, R42	T25  RESC1608X55X30LL15 T15	CMP-2001-00636-1 CMP-2000-00335-2	
100 ohm	Tape and Reel Chip Resistor, 220 Ohm, +/- 1%, 0.1 W, - 55 to 155 degC, 0603 (1608 Metric), RoHS,	R40, R41	RESC1608X55X30LL15 T15	CMP-2000-00335-2	
PTH-M2D5X5	Tape and Reel M2 PTH (2.5mm),	ST1, ST2	PTH-M2D5X5	CMP-00028-00004-2	
5003	5mm pad Test Point, Orange, Height 4.6 mm, Tail Length 3 mm, 1-Pin	TP1, TP2, TP3, TP4, TP5, TP6	KSTN-5003	CMP-002-00037-2	
LF50ABDT-TR	THD, RoHS 500mA, Very Low Drop (0.45V) Voltage Regulator, 5V, 3-Pin	U1	TO-252_M	CMP-0244-00070-1	
CNY65ABST	DPAK, Tape and Reel Semiconductor, Optocoupler; 600 mil High Voltage Isolation Dist; CTR, 80 240%; SMD-4	U2, U3	SOIC762P1940X755- 4N	CNY65ABST	
LM2904DR2G	Single Supply Dual Operational Amplifier, 3 to 32 V, - 40 to 105 degC, 8-Pin SOIC, Pb-Free, Tape and Reel	U4	ONSC-SOIC-8-751- 07_V	CMP-1310-00321-1	