



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C9	1	CAP, CERAMIC, 1uF, 25V, X7R, 10%, 0805	1uF	10%	805	Murata	GCM21BR71E105KA56L	Yes	Yes
C34 C35 C36 C37 C39 C40 C50 C52 C55 C57 C59 C61 C70 C147 C148 C151 C152	17	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	3216-18	AVX	TAJA106K010R	Yes	Yes
C42 C43 C44	32	CAP, CERAMIC, 100nF, 10V, X5R	100nF		201	Panasonic	ECJ2EB1A104M	Yes	Yes
C103 C112 C115	7	CAP, TANTALUM CHIP, LOW ESR	10uF		3216-18	AVX	TPSA106K010R0900	Yes	Yes
C108 C109 C110 C111 C114 C117 C123 C124 C125 C126 C135 C136 C137 C138 C142 C143 C146	17	CAP, CERAMIC, 10nF, 10V, X7R, 10%, 0201	10nF	10%	201	Murata	GRM033R71A103KA01D	Yes	Yes
D1	1	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	GRN	-	603	Lite-On	LTST-C190KGKT	Yes	Yes
J1	1	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS 0.635MM PITCH, ALGNMNT PINS, 1 GND BUS PIN, LIGHT GOLD PLTG, RETENTION PINS	CON52-2x26-J (QFS)	-	-	Samtec	QFS-026-04.25-L-D-A-RT1	Yes	Yes
L11	1	IND, FERRITE CHIP, 220 OHM AT 100MHz, 0.1 OHM DC, 0603	1.4A	-	603	Murata	BLM18PG221SN1D	Yes	Yes
P3 P16 P19 P47	4	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P	-	-	3M	951103-8622-AR	Yes	Yes
P24	1	CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	HDR6-2x3-P	-	-	3M	951206-8622-AR	Yes	Yes
P27	1	CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-2x2-P	-	-	3M	951204-8622-AR	Yes	Yes
P41 P42 P43 P44 P45 P46 P48	7	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P	-	-	3M	951102-8622-AR	Yes	Yes
R23	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 5%, 0402	560	5%	402	Panasonic	ERJ2GEJ561X	Yes	Yes
R25	1	RESISTOR, POTENTIOMETER, TOP ADJ, 50K, 0.5W, 10%, SMD, 277L x .264"W x .192"H	50K	10%	277x264x192	Bourns	3361P-1-503GLF	Yes	Yes
R26	1	RESISTOR, THICK FILM CHIP, SMD, 20K, 0.1W, 5%, 0603	20K	5%	603	Panasonic	ERJ3GEYJ203V	Yes	Yes
R27 R28 R29	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 5%, 0402	33	5%	402	Panasonic	ERJ2GEJ330X	Yes	Yes
R32 R45 R46 R47 R87 R88 R89 R90 R91	9	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	402	Panasonic	ERJ2GEJ103X	Yes	Yes
R34 R35 R48	3	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.063W, 5%, 0402	0	5%	402	Panasonic	ERJ2GE0R00X	Yes	Yes
SW 1	1	SWITCH, PUSH BUTTON, SEALED TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 12VDC, SMD	PB-SPST	-	SMD	C&K Components	PTS635SL25SMTRLFS	Yes	Yes
TP6 TP7	2	CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	TSTPT-5016	-	-	Keystone Electronics	5016	Yes	Yes
U1	1	IC, VOLTAGE REGULATOR, POSITIVE, VLDO, ADJ, 100mA, 0.2 TO 9.5V OUTPUT, MSOP8	LT3020EMS8-ADJ	-	MSOP8	Linear Technology	LT3020EMS8#PBF	Yes	Yes
U2 U3	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 9mA, 0.8V TO 2.7V, SOT23-5	SN74AUC1G17	-	SOT23-5	Texas Instruments	SN74AUC1G17DBVR	Yes	Yes
U5	1	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, SGL, SC70-5	SN74AUC1G08	-	SC70-5	Texas Instruments	SN74AUC1G08DCKR	Yes	Yes
U6	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SOT143-4	CAT811	-	SOT143-4	ON Semiconductor	CAT811STBI	No	Yes
U8	1	IC, SERIAL EEPROM, I2C, 64Kbit, 2.5V, 1MHz, 40°C - 85°C, SO8	24FC64-I/SN	-	SO8	Microchip	24FC64-I/SN	Yes	Yes
U9	1	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, C25E, AR0238, Mplcc48	AR0238- DEMO3_Mplcc48	-	mPLCC48	ON Semiconductor	AR0238_48mPLCC	No	Yes
Y1	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 2.25V TO 3.63V, 4mA, 27.000MHz, 2.5MM x 2.0MM	27MHz	-	2.5mm x 2.0mm	Kyocera	KC2520B27.0000C2GE00	Yes	Yes