



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C4 C12 C28 C23 C24 C25 C28 C30 C32 C34 C36 C38 C39 C41 C42 C44 C49 C51	19	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	c3216-01	AVX	TAJA10K010R	Yes	Yes
C2 C3 C4 C9 C9 C11 C14 C18 C19	10	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	c0201-01	Panasonic	ECJ2B1A10M	Yes	Yes
C5 C13 C15 C20	4	CAP, CERAMIC, 1uF, 10V, X7R, 10%, 0805	1uF	10%	c0805-01	Panasonic	ECJ2YB1A105K	Yes	Yes
C31 C32 C36 C37 C33 C35 C43 C46 C46 C47 C48 C50 C52 C53 C54 C55	16	CAP, CERAMIC, 100nF, 10V, X7R, 10%, 0402	100nF	10%	c0402-01	Murata	GRM155R71C10M4800	Yes	Yes
C29	1	CAP, CERAMIC, 10nF, 50V, X7R, 10%, 0402	10nF	10%	c0402-01	Panasonic	ECJ0E81C103K	Yes	Yes
C31 C37 C40	3	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%, 3216	10uF	10%	c3216-01	AVX	TPSA10K010R000	Yes	Yes
D01	1	DIGIDE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0805	GRN		d0805-01	Lite-On	LT37-C190K0T	Yes	Yes
F01 F02 F03 F05 F06 F07	6	FIDUCIAL, GLOBAL, 40 MIL ROUND PAD WITH 120 MIL ROUND SOLDER MASK	FIDUCIAL		fiducial-global-01			Yes	Yes
F04 F08	2	FIDUCIAL, SIG, SKIP BLOCK, 80 MIL ROUND PAD WITH 85 MIL ROUND SOLDER MASK	SKIP BLOCK		fiducial-skipblock-sig-01			Yes	Yes
J14 J5 J6	4	CONN, JACK, MODULAR, LOW PROFILE, RT ANGLE, NO PEGS, B POSITION, 8 CONTACT, 2 MTS PADS, SMD, 845	845-8-BA-J		con-8-j45-01	Kycon	GXM SMT4-N-88	Yes	Yes
J2	1	CONN, HEADER, VERTICAL, 4 WALL, LOW PROFILE, 2x13, 26 PIN, 100 PITCH, 25 MIL SQ PDS	HDR26-2x13-P		con-26-hdr-10	3M	N2526-600298	Yes	Yes
J3	1	CONN, HEADER, LOW PROFILE, VERTICAL, 1x13, 13 PIN, 100 PITCH, 25 MIL SQ PDS	HDR13-1x13-P (MTLW)		con-13-hdr-10	Samtec	MTLW-113-22-G-5-450	Yes	Yes
MP1	1	MODULE, SOCKET, ASBY OF SMTLC-000900-1 AND LMTLC-000900-1, 0.0004, 2.0mm PITCH, 16x16 MTS HOLES, 2 ALIGNMENT PEG HOLES	mod-4-0900-0900_ILCC48_HOLTC		mod-4-0900-0900_ILCC48_HolTC	Antares	SKT-0900-0900_ILCC48	Yes	Yes
MP2	1	MODULE, TRI-POD ADAPTER, 1.0" LONG x .900" WIDE x .500" HIGH, W/ 2 MTS HOLES (FOR 8-32 SCREWS)	TRIPOD ADPTR		mod-2-tripod_adptr-01	Apina Imaging	APAA3005	No	Yes
P1 P3 P6 P11 P17 P18	6	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P		con-2-hdr-11	3M	951103-8622-AR	Yes	Yes
P2 P7 P8 P9 P10 P12 P13 P14 P15 P16 P19	12	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P		con-3-hdr-13	3M	951103-8622-AR	Yes	Yes
P4	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-1x4-P		con-4-hdr-13	3M	951104-8622-AR	Yes	Yes
R5 R2 R3 R39 R20 R25 R26 R32	8	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	r0402-01	Panasonic	ERJ2GE103X	Yes	Yes
R6 R7 R9 R11 R12	5	RESISTOR, POTENTIOMETER, CERMET TRIMMER, SIDE ADJ, SMD, 50K, 0.05W	50K		pot-3-01	Capal Electronics	ST-SET7505	Yes	Yes
R5 R8 R10 R13	4	RESISTOR, METAL FILM CHIP, SMD, 15K, 0.063W, 5%, 0402	15K	1%	r0402-01	Panasonic	ER49E153V	Yes	Yes
R6	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	560	5%	r0402-01	Panasonic	ERJ2GE1561X	Yes	Yes
R14	1	RESISTOR, THICK FILM CHIP, SMD, 20K, 0.1W, 5%, 0603	20K	5%	r0603-01	Panasonic	ERJ3GE1203V	Yes	Yes
R15 R16	2	RESISTOR, THICK FILM CHIP, SMD, 0 OHM, 0.063W, 5%, 0402	0	5%	r0402-01	Panasonic	ERJ2GE000X	Yes	Yes
R21 R22	2	RESISTOR, THICK FILM CHIP, SMD, 1.5K, 0.1W, 5%, 0402	1.5K	5%	r0402-01	Panasonic	ERJ2GE152X	Yes	Yes
R27	1	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	r0402-01	Panasonic	ERJ2GE130X	Yes	Yes
SW1	1	SWITCH, PUSH-BUTTON, SEALED TACTILE, MOM, 2 PIN, SPT-NO, 0.05A @ 32VDC, SMD	P8-SPST		sw-2-01	C&K Components	PTS635125SMTFLF5	Yes	Yes
TP1 TP2 TP43 TP6 TP7 TP8	6	TEST PAD, 40MIL ROUND PAD, NO PASTEMASK, SMT FOR ELECTRICAL DEBURRING	TESTPAD-SMT40RD		testpad-40rd-01	N/A	N/A	Yes	Yes
TP3 TP4	2	CONN, TERMINAL, TEST POINT COMPACT, 015 THICK, SMT	TS3PT-5016		con-3-4ppr-11	KeyStone Electronics	5016	Yes	Yes
TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP17 TP18 TP19 TP20 TP21 TP22 TP3 TP4 TP5 TP6	20	TEST PAD, 20 MIL ROUND PAD, NO PASTEMASK, SMT FOR ELECTRICAL DEBURRING	TESTPAD-SMT20RD		testpad-20rd-01	N/A	N/A	Yes	Yes
U1	1	IC, SENSOR, ACTIVE, I2C, DIGITAL RANGE, CMOS, 1.12" CMOS DEMO HBDD, A3135, CLCC48	A3135-C26E-DEMO_ILCC48		ic48-p80-01	Apina Imaging	A3135	No	Yes
U2 U4 U6 U7	4	IC, VOLTAGE REGULATOR, LDO, LINEAR, ADJ, 300mA, INPUT VOLTAGE 2.5 TO 5.5V, OUTPUT VOLTAGE 0.8 TO 5V, TSOT23-5 (TSOT3)	ADP1712AUJ2		tot23-5-01	Analog Devices	ADP1712AUJ2-R7	Yes	Yes
U3	1	IC, VOLTAGE REGULATOR, LDO, DMSD, FIXED, 3.3V, 300mA, LOW NOISE, SOT23-5	REG102NA-3.3V		tot23-5-01	Texas Instruments	REG102NA-3.3/250	Yes	Yes
U5	1	IC, VOLTAGE REGULATOR, LDO, LINEAR, FIXED, 3.3V, 300mA, INPUT VOLTAGE 2.5 TO 5.5V, TSOT23-5 (TSOT3)	ADP1714AUJ2 3.3		tot23-5-01	Analog Devices	ADP1714AUJ2-3-3-R7	Yes	Yes
U8	1	IC, VOLTAGE REGULATOR, POSITIVE, VLD0, ADJ, 100mA, 0.2 TO 9.5V OUTPUT, MSOP8	LT3020EMS8 ADJ		msop8-p65-01	Linear Technology	LT3020EMS8PBF	Yes	Yes
U9	1	IC, LEVEL TRANSLATING I2C BUS REPEATER, TSOP8	PC495170P		tsop8-p65-01	NXP Semiconductors	PC495170P-T	Yes	Yes
U10	1	IC, SERIAL EEPROM, I2C, 4KBIT, 2.5V, SO8	24LC64-V5N		soic8-p127-rb-01	Microchip	24LC64-V5N	Yes	Yes
U11	1	IC, BUFFER, SINGLE SCHMITT-TRIGGER, SOT23-5	SN74AUC1G17		tot23-5-01	Texas Instruments	SN74AUC1G17DBVR	Yes	Yes
U12	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.5V, ACTIVE LOW RESET, SOT143-4	CAT8115		tot143-4-01	ON Semiconductor	CAT8115BI	No	Yes
U13	1	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, SCL, SC7B-5	SN74AUC1G208		ic70-5-01	Texas Instruments	SN74AUC1G208BCKR	Yes	Yes
Y1	1	OSC, CRYSTAL CLOCK, SMD, 3.3V, 24.000MHz	24MHz		osc4-2	ECS Inc.	ECS-2033-240-BN	Yes	Yes