

Ref	Value	Manufacturer	Manufacturer PN	Description
C1	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C2	15pF	Kemet	C0805C150J5GACTU	CAP CERAMIC 15PF 50V NPO 0805
C3	15pF	Kemet	C0805C150J5GACTU	CAP CERAMIC 15PF 50V NPO 0805
C4	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C5	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C6	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C7	0.1uF	AVX Corp	TAJA104K035RNJ	CAP TANTALUM .10UF 35V 10% SMD
C8	0.1uF	AVX Corp	TAJA104K035RNJ	CAP TANTALUM .10UF 35V 10% SMD
C9	10uF	AVX Corp	TPSD106K035R0125	CAP TANT LOESR 10UF 35V 10% SMD
C10	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C11	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C12	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C13	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C14	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C15	1.0uF	Kemet	C1206C105K5RAC	CAP CER 1.0UF 50V X7R 1206
C16	10uF	AVX Corporation	TPST106K010R1000	CAP TANT 10UF 10V 10% 1210
C17	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
C18	0.10uF	Kemet	C1206C104F3GACTU	CAP CER 0.1UF 25V 1% NPO 1206
C19	100uF	AVX Corporation	TAJE107M025RNJ	CAP TANT 100UF 25V 20% 2917
C20	68uF	AVX Corporation	TAJD686K016RNJ	CAP TANTALUM 68UF 16V 10% SMD
C21	0.10uF	Kemet	C1206C104F3GACTU	CAP CER 0.1UF 25V 1% NPO 1206
C22	0.1uF	AVX Corp	0508YC104KAT2V	CAP CER 0.1UF 16V 10% X7R 0508
D1	LTST-C150KGKT	Lite-On Inc.	LTST-C150KGKT	LED GREEN CLEAR 1206 SMD
D2	LTST-C150KGKT	Lite-On Inc.	LTST-C150KGKT	LED GREEN CLEAR 1206 SMD
D3	LTST-C150KGKT	Lite-On Inc.	LTST-C150KGKT	LED GREEN CLEAR 1206 SMD
D4	PMEG3050EP,115	NXP Semiconductors	PMEG3050EP,115	DIODE SCHOTTKY 30V 5A SOD128
D5	B550C-13-F	B550C-13-F	Diodes Inc	DIODE SCHOTTKY 50V 5A SMC
D6	BZX384-C3V3,115	NXP Semiconductors	BZX384-C3V3,115	DIODE ZENER 3.3V 300MW SOD323
D7	DB2J31700L	Panasonic Elec Comp	DB2J31700L	DIODE 30V 1A SMINI2
J1	68602-116HLF	FCI	68602-116HLF	CONN HEADER DUAL ROW 16POS .100 STR
J2	87831-0620	Molex Conn Corp	87831-0620	CONN HEADER 6POS 2MM VERT GOLD
J3	70543-0003	Molex Inc	70543-0003	CONN HEADER 4POS .100 VERT GOLD
J4	70543-0001	Molex Inc	70543-0001	CONN HEADER 2POS .100 VERT GOLD

Ref	Value	Manufacturer	Manufacturer PN	Description
J5	1881558	Phoenix Contact	1881558	CONN TERM BLK HDR 2.5MM 2POS
J6	70543-0001	Molex Inc	70543-0001	CONN HEADER 2POS .100 VERT GOLD
J7	1881561	Phoenix Contact	1881561	CONN TERM BLK HDR 2.5MM 3POS
JP1	951102-8622-AR	3M	951102-8622-AR	CONN HEADER 2POS 2MM VERT T/H
JP2	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
JP3	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
JP4	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
JP5	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
JP6	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
JP7	951102-8622-AR	3M	951102-8622-AR	CONN HEADER 2POS 2MM VERT T/H
JP8	951103-8622-AR	3M	951103-8622-AR	CONN HEADER 3POS 2MM VERT T/H
K1	DSP2A-DC12V	Panasonic PEWA	DSP2A-DC12V	RELAY GEN PURPOSE DPST 5A 12V
L1	27uH	Würth Electronics	744770127	INDUCTOR POWER 27UH 3.7A SMD
Q1	BC847CLT1G	ON Semiconductor	BC847CLT1G	TRANS NPN LP 100MA 45V SOT23
R1	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R2	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R3	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R4	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R5	1.00K	Vishay	CRCW12061K00FKEA	RES 1.00K OHM 1/4W 1% 1206 SMD
R6	3.32K	Vishay	CRCW12063K32FKEA	RES 3.32K OHM 1/4W 1% 1206 SMD
R7	6.81K	Vishay	CRCW12066K81FKEA	RES 6.81K OHM 1/4W 1% 1206 SMD
R8	110	Vishay	CRCW1206110RFKEA	RES 110 OHM 1/4W 1% 1206 SMD
R9	100.0K	Vishay	CRCW1206100KFKEA	RES 100.0K OHM 1/4W 1% 1206 SMD
R10	1.00K	Vishay	CRCW12061K00FKEA	RES 1.00K OHM 1/4W 1% 1206 SMD
R11	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R12	100.0K	Vishay	CRCW1206100KFKEA	RES 100.0K OHM 1/4W 1% 1206 SMD
R13	110	Vishay	CRCW1206110RFKEA	RES 110 OHM 1/4W 1% 1206 SMD
R14	100.0K	Vishay	CRCW1206100KFKEA	RES 100.0K OHM 1/4W 1% 1206 SMD
R15	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R16	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R17	59	Vishay	CRCW120659R0FKEA	RES 59 OHM 1/4W 1% 1206 SMD
R18	0.02	Vishay Dale	WSL1206R0200FEA	RES .02 OHM 1/4W 1% 1206 SMD
R19	121.0K	Vishay	CRCW1206121KFKEA	RES 121.0K OHM 1/4W 1% 1206 SMD

Ref	Value	Manufacturer	Manufacturer PN	Description
R20	22.1K	Vishay	CRCW120622K1FKEA	RES 22.1K OHM 1/4W 1% 1206 SMD
R21	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R22	1.00M	Vishay	CRCW12061M00FKEA	RES 1.00M OHM 1/4W 1% 1206 SMD
R23	TBD			TO BE DETERMINED, HEIGHT 0.6mm
R24	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R25	383.0K	Vishay	CRCW1206383KFKEA	RES 383.0K OHM 1/4W 1% 1206 SMD
R26	36.5K	Vishay	CRCW120636K5FKEA	RES 36.5K OHM 1/4W 1% 1206 SMD
R27	13.3K	Vishay	CRCW120613K3FKEA	RES 13.3K OHM 1/4W 1% 1206 SMD
R28	100.0K	Vishay	CRCW1206100KFKEA	RES 100.0K OHM 1/4W 1% 1206 SMD
R29	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R30	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
R31	10.0K	Vishay	CRCW120610K0FKEA	RES 10.0K OHM 1/4W 1% 1206 SMD
SW1	SWT6-V2M	TT Electronics	SWT6-V2M	SWITCH 6.0X6.0MM 160GF TOP TH
TP1	YELLOW	Keystone Electronics	5009	TEST POINT PC COMPACT .063"D YEL
TP2	RED	Keystone Electronics	5005	TEST POINT PC COMPACT .063"D RED
TP3	BLACK	Keystone Electronics	5006	TEST POINT PC COMPACT .063"D BLK
TP4	ORANGE	Keystone Electronics	5008	TEST POINT PC COMPACT .063"D ORN
TP5	GREEN	Keystone	5121	TEST POINT PC COMPACT T/H GREEN
U1	SN74LS07D	Texas Instruments	SN74LS07D	IC BUFF/DVR HEX INVERT 14SOICN
U2	PIC24FJ64GA104-I/PT	Microchip Technology	PIC24FJ64GA104-I/PT	IC PIC MCU FLASH 64KB 44-TQFP
U3	74HC4050D,653	NXP	74HC4050D,653	IC HEX LEVEL SHIFTER 16SOIC
U4	MAX3232IDWR	Texas Instruments	MAX3232IDWR	IC DRVR/RCVR MULTCH RS232 16SOIC
U5	DS3234S#	Maxim Integrated	DS3234S#	IC RTC W/TCXO 20-SOIC
U6	SST25VF080B-80-4I-SAE	Microchip	SST25VF080B-80-4I-SAE	IC FLASH 8MBIT 80MHZ 8SOIC
U7	24AA01-I/SN	Microchip	24AA01-I/SN	IC EEPROM 1KBIT 400KHZ 8SOIC
U8	MIC5209-3.3YS	Micrel Inc	MIC5209-3.3YS	IC REG LDO 3.3V .5A SOT-223
U9	MAX4372FEUK+T	Maxim Integrated	MAX4372FEUK+T	IC AMP GAIN +50V/V PREC SOT23-5
U10	AD8603AUJZ	Analog Devices	AD8603AUJZ-REEL7	IC OPAMP GP R-R CMOS TSOT23-5
U11	MAX5035DASA+	Maxim Integrated	MAX5035DASA+	IC REG BUCK ADJ 1A 8SOIC
U12	IRF7309TRPBF	International Rectifier	IRF7309TRPBF	MOSFET N+P 30V 3A 8-SOIC
U13	IRF7309TRPBF	International Rectifier	IRF7309TRPBF	MOSFET N+P 30V 3A 8-SOIC
Y1	3.6864MHz	ECS Inc	ECS-36-20-5PXDU-TR	CRYSTAL 3.6864 MHZ 20PF SMD