

MAXREFDES74# BOM

DESIGNATION	QTY_PER	DESCRIPTION
GND, TP5, TP6, TP8 TP13, TP15-TP17 TP19, TP22, TP28 TP29, TP31, TP34 TP36, TP41, TP54	17	BLACK MINI TEST POINTS KEYSTONE 5001
TP1-TP4, TP7 TP9-TP12 TP14, TP18, TP20 TP23, TP24, TP30 TP32, TP33, TP35 TP46, TP51-TP53 5V_FPGA, +20V	24	TESTPOINT, PC MINI-RED KEYSTONE 5000
C1, C7, C14	3	CAP#,4.7uF,10%,50V,X5R,0805
C2	1	CAP,25V,10% 0.47uF,X7R,CER,0603
C3, C25, C30, C35 C55, C64, C66-C68 C71, C74, C105 C107, C110, C112	15	CAP+,1000pF,10%,100V,X7R,0603
C4, C5, C11, C12	4	CAP#,4.7uF,10%,25V,X7R,0805
C6, C13, C18-C19,C24 C27, C28, C33, C34 C37, C39, C41, C44 C49, C65, C70, C77 C50, C54, C58-C61 C78, C80, C82, C84 C86, C88, C90, C93 C96, C99, C100, C102 C104, C106, C108 C113-C119, C121,C123 C136, C138, C139	50	CAP,100V,0.1UF,10%,X7R,0603
C8, C15, C38, C129	4	CAP+,0.01uF,10%,200V,X7R,0603
C9, C16, C21 C22, C103, C109	6	CAP+,10UF,10%,35V,X5R,0805
C10, C17, C20 C36, C40, C101	6	CAP,50V,10% 1uF,X7R,CER,0805
C23, C26, C29, C31 C32, C43, C48, C53 C57, C62, C69, C75 C76, C79, C81, C83 C94, C95, C97, C98 C111, C120, C122 C124, C135, C137	26	CAP+,1UF,10%,50V,X7R,0603
C42	1	CAP+,0.01uF,5%,50V,X7R,0603
C45, C132	2	CAP+,10UF,20%,10V,X5R,0508
C46, C47, C72, C73	4	CAP+,4700PF,1%,50V,COG,0603
C56	1	CAP+,10uF,10%,16V,X5R,0805
C63	1	CAP,50V,5% 100pF,COG,CER,0603
C85, C87, C89	3	CAP+,4.7UF,10%,25V,X5R,0603
C91, C92	2	CAP+,18PF,,25PF,50V,COG,0603
CON1	1	CONNECTOR,TERM ARRAY ASSY, 0.050" SAMTEC ASP-134604-01

CON2-CON5, CON22 CON7-CON11	10	CONN#,SMA JACK STR 50 OHM PCB TYCO 5-1814832-1
CON6	1	MINI USB-TYPE B FCI CONNECT 10033526-N3212MLF
D1, D2	2	DIODE+,SCHOTTKY,40V,0.2A,SOT-143 INFINEON BAS4002A-RPP
D3	1	DIODE0,RED,0%,1.8V.2mA,0603 OSRAM LS L29K-G1J2-1-Z
D4	1	SCHOTTKY DIODE, 0.5A, 20V, SOD-123 FAIRCHILD SEMICONDUCTOR MBR0520L
D5, D6	2	DIODE+,GREEN,0%,12V,20mA,0603 OSRAM LGL29K-G2J1-24-Z
D7	1	40V 0.5A SCHOTTKY DIODE (SOD-323) DIODES INCORPORATED B0530WS-7-F
D8	1	DIODE+,ZENER,5%,3V,200MW,SOD323 DIODES INCORPORATED MMSZ5225BS-7-F
FB5	1	SURFACE MOUNT FERRITE BEAD (0603) TDK MMZ1608B601C
J1	1	CONN+,POWER JACK,2.5MM KYCON KLDX-0202-B
J2	1	PCI-EXPRESS-16 CONNECTOR TE CONNECTIVITY 282834-2
J4-J5, J15-J18 -4P J9, J28, J29 -4P J8, J24 -6P, J32 -8P J10 -10P	0.916667	2X36 PIN HEADER 0.1 (CUT TO FIT) SULLINS ELECTRONIC CORP PBC02DAAN PBC03SAAN PCC03SAAN PEC03DAAN PEC05DAAN PEC10SAAN PBC06SAAN PBC04DAAN
J3, J14, J20 -2P J6-J7, J11, J12 -3P J30 -3P, J26 -2P J21 -10P, J13 -3P J22, J23 -6P	1.333333	HEADER 36-40 PINS (CUT TO FIT) SULLINS ELECTRONIC CORP PBC02DAAN PBC03SAAN PCC03SAAN PEC03DAAN PEC05DAAN PEC10SAAN PBC06SAAN PBC04DAAN
L1-L4	4	INDUCTOR; SMT; MAGNETICALLY SHIELDED FERRITE BOBBIN CORE; 33UH; TOL=+/-20%; 0.38A COILCRAFT XPL2010-333ML
L5	1	INDUCTOR; SMT (0603); CERAMIC CHIP; 10NH; TOL=+/- 5%; 0.7A; -40 DEGC TO +125 DEGC COILCRAFT 0603CS-10NXJLW
R1	1	1KOHM +-1% RESISTORS 0603 PB FREE
R2, R4	2	RES#,820K OHM,1%,0603
R3, R5	2	71.5K OHM 1% RESISTOR (0603)
R6	1	169K OHM 1% RESISTOR (0603)PB FREE
R7, R31	2	100K OHM 1% RESISTOR (0603)PB FREE
R8	1	RES,1%,261KOHMS,0603
R9	1	12.1K 0.01 0603 RESISTOR
R10-R17, R150	9	10K +-1% RESISTORS (0603)
R18-R26, R33,R35-R38 R40-R48, R62,R64-R66 R69-R77, R79-R81 R86, R90-R95, R101 R102, R110, R121 R158, R161-R164	55	RES,1%,280HMS,0603
R27, R28	2	RES,20K OHMS 1% 0603

R29, R30, R34, R39 R61, R105-R106, R153	8	49.9 OHMS, 1%, RESISTOR (0603)
R32	1	2.10KOHM 1% RESISTOR (0603)
R49-R52	4	1MOHM +-1% RESISTOR (0603)
R53, R54, R58, R59 R131, R142-R143, R148	8	RES#, 4.99K OHM, 0.1%, 0603
R55, R56, R60 R63, R82, R84 R139, R140, R152	9	RES, 0 OHMS 5% 0603
R57	1	RES, 0.1%, 15KOHMS, 0603
R78	1	RES+, 10 OHM, 0.1%, 0603
R67	1	15K OHM 1% RESISTORS (0603) (LEAD-F
R68, R108, R111 R113-R119, R125	11	RES, 10K OHMS 1% 0603
R83, R85, R88, R89	4	RESISTORS, 4.7K OHM 5% (0603)
R87	1	RES, 0.1%, 4.7KOHMS, 0603
R100	1	RES#, 1.5M OHM, 1%, 603
R103	1	330KOHM 1% RESISTOR (0603) PB FREE
R124	1	2.2KOHM +-1%, RESISTOR (0603)
R132	1	RES#, 14K OHM, 0.1%, 0603
R135	1	RES#, 6.04K OHM, 0.1%, 0603
R137	1	RES, 0.1%, 7.5KOHMS, 0603
T1	1	XFRMR+, 1:1.3:1.3, 13%, V8LF HALO ELECTRONICS TGM-H240V8LF
U1	1	IC+, MAX13256ATB+
U2	1	IC+, REG LDO ADJ, 0.15A, 8MSOP TEXAS INSTRUMENTS TPS7A4901DGN
U3	1	IC+, REG LDO NEG ADJ, 0.2A, 8MSOP TEXAS INSTRUMENTS TPS7A3001DGN
U4, U23	2	IC+, MAX15006BATT+
U5	1	IC+, MAX5318GUG+
U6	1	IC+, MAX14850ASE+
U7, U8, U27-U29	5	IC+, MAX9632AUA+
U9	1	IC+, MAX8719ETA+
U10	1	IC+, MAX11156ETC+
U11	1	IC+, MAX6126AASA41+
U12	1	IC+, MAX6070AAUT41+
U13	1	IC+, MAX664ESA+
U15	1	IC+, USB HS DUAL, UART/FIFO, 64-LQFP FTDI FT2232HL
U16, U25	2	IC+, EEPROM, 4KBIT, 2MHZ, SOT23-6 MICROCHIP 93LC66BT-I/OT
U17, U18, U24	3	IC+, DCTL ISO 4CH LOGIC, 16SOIC TEXAS INSTRUMENTS ISO7640FMDW
U20	1	IC+, MAX15006AATT+
U21, U22	2	IC+, BUS BUFF DVR TRI-ST DL, 8TSSOP NXP SEMICONDUCTORS 74LVC2G125DP
Y1	1	XTAL#, 12MHZ, 18PF, SMD ABRACON ABM7-12.000MHZ-D2Y-T

	1	PCB+,MAXREFDES74#
S1-S25	25	SHUNT SHORTING JUMPER
PACK-OUT	1	CABLE+,SMA/SMA,M,6",RG-174 COAX,BLK
PACK-OUT	1	CABLE+,ETHERNET PATCH,CAT6,BLUE,2FT