

Sorted By : BOM Sequence

Part Code : RAD-CELF
Description : RAD-CELF PCB ASSEMBLY
Drawing No : 2100-5008-001
Issue No : B02

Quantity	Src	Part Code	Drawing	Issue	Description	Actions	Product Type
1.0000	I	SUB-RAD-CELF		B02	RAD-CELF SMT ASSEMBLY		FIN/LF
			2100-5008-001				
0.2000	B	HDR-40-2			HEADER 40 WAY STRAIGHT SIL GOLD DBCPHC1540AG1 ROHS COMPLIANT	P16,P17	HDR/LF
0.4000	B	HDR-40-1			HEADER 40 WAY DIL GOLD 2.54mm PTH. 6mm PIN HEIGHT DBCPHC1740AG1 ROHS COMPLIANT TOBY THD-40-G	J1,J2	HDR/LF
1.0000	B	CON-USB-65			CONNECTOR USB 2.0 TYPE A RECEPTACLE PTH MULTICOMP MC32593	P2	CON/LF
14.0000	B	CON-MCX-21			CONNECTOR 50 OHM MCX COAX STRAIGHT JACK 5PIN PTH TE CONNECTIVITY / AMP 1060984-1	P3, P4, P5, P6, P8, P9, P12, P14, P19, P20, P21, P22, P23, P24	CON/LF

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1.0000	B	SKT-14-16			SOCKET 14WAY (4 LOADED) IC DIP 2.54MM PTH MILL-MAX MANUFACTURING 110-43-314-10-001000	Y1	SKT/LF



Assembly Build Sheet

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Assembly Build Sheet

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1.0000	B	PCB-RAD-CELF-1	RAD-CELF_ REV_B_dd	B	PRINTED CIRCUIT BOARD + FAIR	NO FITS - C115,C116,C117,C118 C131,C162,C176,C207 JP1 L1,L12,L13 P18 R1 R11,R29,R34,R36,R44,R62, R67,R75,R87,R89,R90,R92, R95,R107,R125,R151,R169 R42,R97,R129,R141,R173 R45,R46,R105,R106,R149, R150 R47,R48,R110,R111,R154, R155 TP1,TP2,TP3,TP4,TP5,TP6	PCB/LF
6.0000	B	SMC-100UF-41			CAPACITOR MLC 1206 100UF 6.3V 20% X5R KEMET C1206C107M9PAC FEC 135-8552	C1, C27, C60, C83, C150, C195	SMC/LF

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89.0000	B	SMC-0.1UF-45			CAPACITOR MLC 0402 0.1UF 10% 25V X5R Taiyo Yuden TMK105BJ104KV-F	C2, C8, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C26, C28, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C58, C59, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C84, C85, C86, C87, C110, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193	SMC/LF
60.0000	B	SMC-0.1UF-46			CAPACITOR MLC 0603 0.1UF 10% 50V X7R MURATA GRM188R71H104KA93D FEC 882-0023 or 240-8527	C3,C4,C5,C6,C7,C17,C29,C31,C33,C34,C35,C36,C62,C63,C64,C65,C66,C67,C89,C91,C94,C95,C96,C97,C98,C99,C100,C101,C102,C103,C111,C112,C113,C114,C154,C155,C164,C166,C168,C199,C200,C209,C211,C213,C219,C220,C221,C222,C223C40,C130,C153,C157,C175,C198,C202,C115,C116,C117,C118	SMC/LF
13.0000	B	SMC-10UF-139			CAPACITOR 0805 10UF 25V 10% X5R MURATA GRM21BR61E106KA73L AVX 08053D106KAT2A	C25,C56,C82,C149,C194 C158,C160,C170,C172,C203, C205,C215,C217	SMC/LF

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1.0000	B	SMC-0.47UF-22			CAPACITOR 0603 0.47UF 10% 16V X7R KEMET C0603X474K4RAC FEC 141-4037	C30	SMC/LF
1.0000	B	SMC-680PF-4			CAPACITOR MLC 0603 680PF 50V 5% COG E0142451-01	C32	SMC/LF
5.0000	B	SMC-100PF-2			CAPACITOR MLC 0603 100PF 50V 5% COG KEMET C0603C101J5GAC7867 E0140438-03	C39, C129, C156, C174, C201	SMC/LF
6.0000	B	SMC-0.01UF-13			CAPACITOR MLC 0603 0.01UF 50V 5% COG	C57, C61, C151, C152, C196, C197	SMC/LF
8.0000	B	SMC-330PF-19			CAPACITOR MLC 1206 330PF 10% 2000V X7R MULTICOMP MCCA000783 OR AVX 1206GC331KAT1A	C119, C120, C121, C122, C125, C126, C127, C128	SMC/LF
8.0000	B	SMC-0.01UF-48			CAPACITOR 0603 0.01UF 10% 25V X7R CC0603KRX7R8BB103 FEC 301-9561	C159, C161, C171, C173, C204, C206, C216, C218	SMC/LF
4.0000	B	SMC-270PF-1			CAPACITOR MLC 0603 270PF 50V 5% COG	C163, C167, C208, C212	SMC/LF

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5.0000	F	FIL-35MHZ-1			LOW PASS FILTER 35MHZ 8PIN SMT FREE ISSUE D-TACQ	FL1, FL2, FL3, FL4, FL5	FIL/LF
			FIL-35MHZ-1		MINI CIRCUITS SXLP-30+		
3.0000	B	IND-BEAD-69			INDUCTOR BEAD 0603 100R 2A 25% TDK MPZ1608Y101B FEC 166-9748	L2 L14 L15	IND/LF
3.0000	B	TFM-1-1-13-0			FIXED SIGNAL TRANSFORMER SM-22 PACKAGE SMT 5PIN M/A COM ETC1-1-13 TYCO 1068806-1	L3, L5, L8	TFM/LF
5.0000	B	IND-2.2UH-36			INDUCTOR 1206 2.2UH HIGH FREQUENCY MURATA LQM31PN2R2M00L	L4, L6, L7, L10, L11	IND/LF
1.0000	B	CON-170-0			CONN EDGE CARD BLACK 170POS VERT SMT FCI 10058835-1000LF	P1	CON/LF
4.0000	B	CON-COAX-31			CONNECTOR COAX RECEPTACLE 50 OHM SMT ROHS COMP HIROSE U.FL-R-SMT-1(10) FEC 168-8077 **MUST BE CONTINUOUS TAPE -DO NOT BUY CUT STRIPS**	P10, P11, P13, P15	CON/LF

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21.0000	B	SMR-10K-2			RESISTOR 0603 10K 1% 0.1W 100PPM ROHM - MCR03FZPFX1002 ROHS COMPLIANT E0137091-01 PART MARK ##O1C##	R2, R3, R4, R5, R6, R7, R8, R9, R12, R13, R14, R15, R16, R17,R18, R20, R78, R137, R140, R181, R184	SMR/LF
20.0000	B	SMR-33R-1			RESISTOR 0603 33R 1% 0.1W 100PPM ROHS COMPLIANT	R19, R21, R22, R23, R24, R25, R26, R27, R53, R63, R70, R79, SMR/LF R83, R84, R85, R86, R115, R116, R159, R160	
10.0000	B	SMR-24R9-0			RESISTOR 0603 24R9 1% 0.1W 100PPM	R28, R32, R33, R35, R66, R68 R104, R138, R148, R182	SMR
22.0000	B	SMR-49R9-4			RESISTOR 0603 49R9 1% 0.1W 100PPM VISHAY DRALORIC - CRCW060349R9FKEA	R37,R38,R51,R52,R54,R55, R71,R72,R73,R74,R103, R113,R114,R117,R118,R136, R147,R157,R158,R161,R162, R180	SMR/LF
18.0000	B	SMR-0R-3			RESISTOR 0603 0R 1% 0.1W 100PPM RC0603JR-070RL ROHS COMPLIANT E0137117-01	R10,R58,R76,R88,R91,R93, R94,R96,R122,R126,R166,R170 C37,C38,C88,C90,C92,C93	SMR/LF

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11.0000	B	SMR-200R-3			RESISTOR 0603 200R 1% 0.1W 100PPM ROHS COMPLIANT E0146684-01	R39,R40,R43,R99,R100, R131,R132,R143,R144,R175, R176	SMR/LF
2.0000	B	SMR-4K12-0			RESISTOR 0603 4K12 1% 0.1W 100PPM RoHS COMPLIANT	R41, R69	SMR/LF
3.0000	B	SMR-1K3-4			RESISTOR 0603 1K3 1% 0.1W 100PPM RoHS COMPLIANT	R49, R112, R156	SMR/LF
1.0000	B	SMR-3K9-0			RESISTOR 0603 3K9 1% 0.1W 100PPM RoHS COMPLIANT	R50	SMR/LF
12.0000	B	SMR-3K-2			RESISTOR 0603 3K 1% 0.1W 100PPM	R56, R57, R60, R61, R119, R120, R123, R124, R163, R164, R167, R168	SMR/LF
4.0000	B	SMR-150R-0			RESISTOR 0603 150R 1% 0.1W 100PPM ROHS COMPLIANT E0137053-01	R59, R121, R165, R185	SMR/LF
8.0000	B	SMR-100R-0			RESISTOR 0805 100R 1% 0.125W 100PPM ROHS COMPLIANT	R98, R101, R130, R133, R142, R145, R174, R177	SMR/LF

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4.0000	B	SMR-332R-1			RESISTOR 0603 332R 1% 0.1W 100PPM YAGEO 2322-704-63321 or RC0603FR-07332RL	R102, R134, R146, R178	SMR/LF
2.0000	B	SMP-5K-5			POT TRIMMER 5k SMT TOP ADJUST 3214W Series Bourns 3214W-1-502E	R108, R152	SMP/LF
2.0000	B	SMR-2K49-8			RESISTOR 0603 2K49 1% 0.1W 100PPM VISHAY CRCW06032K49FKEA	R109, R153	SMR/LF
4.0000	B	SMR-34K-3			RESISTOR 0603 34K 1% 0.1W 100PPM VISHAY CRCW060334K0FKEA	R135, R139, R179, R183	SMR/LF
1.0000	B	SMI-24C64-1			MEMORY EEPROM 64KBIT 1MHZ SOIC8 ST MICRO M24C64-WMN6P ROHS COMPLIANT 1087138 **NO ALTERNATIVES**	U1	SMI/LF
2.0000	B	SMI-7417-1			IC SSOP16-6.4W AD7417ARUZ ROHS COMPLIANT	U2, U3	SMI/LF
1.0000	B	SMI-6408-0			IC I/O EXPANDER I2C 8B 16TSSOP TEXAS TCA6408APWR PART MARKED - ####PH408A####	U4	SMI/LFMSL1
2.0000	B	SMI-9512-0			IC CLK BUFFER 2:5 1.2GHZ 48LFCSP ANALOG DEVICES AD9512BCPZ	U5, U10	SMI/LFMSL3

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1.0000	B	SMI-74AHC1GU-0			IC INVERTER GATE 2V-5.5V 5TSSOP NXP 74AHC1GU04GW **AD**	U6	SMI/LFMSL1
3.0000	B	SMI-9854-0			IC QFP80-17.2W AD9854ASVZ AD9854ASQ PART IS OBSOLETE REPLACED BY ASVZ SUFFIX	U7, U22, U26	SMI/LFMSL3
5.0000	B	SMI-74AVCH1T45-0			IC NON-INVERTING TRANCEIVER SC-70-6 TEXAS SN74AVCH1T45DCK **PART MARKED TF**	U8, U9, U17, U18, U31	SMI/LF
3.0000	B	SMI-74LVC8T245-0			IC TRANSCEIVER 3-5V 24TSSOP TEXAS SN74LVC8T245PWR **PARTS MARKED NH245**	U11, U15, U30	SMI/LF
6.0000	B	SMI-74AVCH4T245-0			IC 4BIT DUAL-SPLY TXRX 16-TSSOP SN74AVCH4T245PWT(reel) or PWR (cut tape) SN74AVCH4T245PWTE4 ##WS245##	U12, U13, U14 U19, U20, U29	SMI/LF
1.0000	B	SMI-8300-0			IC REG LDO ADJ/PROG 2A 20VQFN TEXAS TPS7A8300RGWT PART MARKED **PZGM**	U16	SMI/LFMSL2

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2.0000	B	SMI-2694-0			IC OPAMP CFA 1.5GHZ 8SOIC TEXAS OPA2694ID	U21, U25	SMI/LFMSL2
2.0000	B	SMI-7A4901-0			IC, LDO, ADJ, 150MA, 8MSOP TEXAS TPS7A4901DGNT **PTJQ** FEC 184-1881	U23, U27	SMI/LF
2.0000	B	SMI-7A3001-0			IC LDO NEG ADJ 200MA 8MSOP TEXAS TPS7A3001DGNT FEC 185-5138 **PSZQ**	U24, U28	SMI/LF
1.0000	I	ATT-RAD-CELF			ATTRITION FOR SUB-RAD-MELF		FIN/LF
4.0000	B	SMC-22UF-113			CAPACITOR MLC 0805 22UF 10% 16V X5R TDK C2012X5R1C226K125AC	C105 C106 C107 C108	SMC/LF
2.0000	B	SMD-BAV99-1			DIODE BAV99 DUAL SOT-23 If=200mA ROHS COMPLIANT FAIRCHILD SEMI BAV99 or PHILIPS BAV99,215 **PART MARKING A7**	D3 D4	SMD/LF
1.0000	B	SMR-105K-0			RESISTOR 0603 105K 0.1% 0.032W 25PPM WELWYN PCF0603R-105KBT1 FEC 135-3109	R81	SMR/LF

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1.0000	B	SMR-20K-2			RESISTOR 0603 20K 0.1% 0.1W 100PPM	R82	OBSOLETE
1.0000	B	CON-12-70			CONNECTOR 12WAY 0.1" FEMALE SMT SULLINS CONNECTOR SOLUTIONS NPPC062KFMS-RC	P18	CON/LF



