

Item	Qty	Reference	Value	Ft prnt	Summit part number	Description	Manufacturing	Manufacturing Part #	Alternates
1	5	C15,C16,C33,C43,C53	1000pF	SM/C_0805	R22-530102-*	CAP CER 1000PF 50V 5% COG 0805 ROHS	AVX	08055A102JAT2A	
2	11	C2,C7,C14,C17,C20,C29,C39,C41,C58,C59,C60	10uf	SM/CT_3216_12	R22-562106-*	CAP,TANT 10UF,10V,10% (1206) PBF	MURATA ELECTRONICS	GRM2165C1H102JA01D PBF	
3	15	C1,C3,C4,C9,C13,C19,C21,C22,C25,C28,C30,C37,C40,C42,C60	20.1	SM/C_0805	R22-114104-2219	CAP .10UF 50V CER 10% X8R 0805 ROHS	KEMET	T491A106K010AS	
4	4	C5,C6,C23,C24	N.U.	SM/C_0805			TDK Corporation	C2012X8R1H104K	
5	1	C8	0.47	SM/C_1812	R22-26474-420	CAP SM .47UF 50V 10% X7R 1812 ROHS	AVX	18125C474KAT2A	
6	2	C11,C10	27pF	SM/C_0805	R22-53270-*	CAP .MON 27PF/50V COG 5% (0805)ROHS	AVX	08055A270JAT2A	
							Panasonic	ECJ-2VC1H270J Request lead free	
7	1	C12	470pF	SM/C_0805	R22-53471-420	CAP CERM 470PF 10% 50V NP0 0805 ROH	AVX	08055A471JAT2A	
8	2	C61,C18	0.01	SM/C_0805	R22-54123-420	CAP CERM .012UF 10% 50V X7R 0805PBF	AVX	08055C123KAT2A	
9	2	C27,C26	15pF	SM/C_0805	R22-53150-*	CAP 15PF 50V CERM 5% 0805 SMD ROH	AVX	08055A150JAT2A	
10	7	C31,C32,C34,C44,C46,C47,C54	100pF	SM/C_0402	R22-112101-207	CAP CER 100PF 50V 5% COG 0402 ROHS	MURATA ELECTRONICS	GRM1555C1H101JD01D	
11	2	C35,C36	9pF	SM/C_0805	R22-69090-389	CAP CERM 9.0PF 50V 0.5PF 0805 SMD R	PANASONIC	ECJ-2VC1H090D	
12	1	C38	100pF	SM/C_0805	R22-53101-207	CAP,MON 100PF/50V COG 5% 0805 PBF	MURATA ELECTRONICS	GRM2165C1H101JA01D	
13	2	C45,C55	10pF	SM/C_0402	R22-112100-207	CAP CER 10PF 50V 5% COG 0402 ROHS	MURATA ELECTRONICS	GRM1555C1H100JZ01D	
14	5	C48,C49,C50,C56,C57	56pF	C_0402_RF	R22-112560-182	CAP CERM 56PF 5% 50V NP0 0402 ROHS	KEMET	C0402C560J5GACTU	
					R22-112560-*		AVX	04025A560JAT2A request lead free	
							MURATA ELECTRONICS	GRM1555C1H560JD01D	
15	2	C51,C52	1.0pF	SM/C_0402	22-113010-420	CAP CER 1.0PF 25V 0402 RF SMD	AVX	04023J1R0ABWTR	
16	13	D1,D5,D6,D7,D8,D9,D10,D13,D14,D15,D16,D17,D18	BAV99LT1	SM/SOT23_123	R28-10107-*	DIODE DUAL 70V SOT-23 PBF	INFINEON TECHNOLOGIES	BAV99E632XT	
							On Semiconductor	BAV99LT1G	
17	1	D2	SSF-LXH104GD	LED4	R08-11201-717	LED 5MM RA FAULT-IND GREEN PCMT ROH	Lumex	SSF-LXH104GD	
18	1	D3	SSF-LXH104ID	LED4	R08-11202-717	LED 5MM RA FAULT-IND RED PC MNT ROH	Lumex	SSF-LXH104ID	
19	1	D4	BAV70LT1	SM/SOT23_123	R28-10029-*	DIODE SWITCH DUAL CC 70V SOT23	ON SEMICONDUCTOR	BAV70LT1	
							Infineon Technologies	BAV70E6327	
20	1	D11	LTST-C171TBKT	SM/D_0805	R28-10179-1361	LED BLUE CLEAR THIN 0805 SMD RO	Lite-On	LTST-C171TBKT	
21	1	D12	20CJQ045	SM/SOT223_1234	28-10176-533	DIODE SCHOTTKY 45V 2A SOT-223	INTERNATIONAL RECTIFIER	20CJQ045	
22	1	JP4	68001-102HLF	BLKCON.100V/VH/TM1SQ/W.100/2	R61-11255-2229	BERGSTIK II 100CC SR STRT 2POS ROHS	Lite-On	68001-102HLF	
23	1	JP7	173981-2	2MM2	61-11247-2173	CONNECTOR 2MM AMP CT	Tyco electronics	292161-2	
24	1	JP8	20S-CBSFP-.075X1.25	RADIOSHIELD	85-2041-1707	RF SHIELD BASE FENCE	Leader Tech	20S-CBSFP-.75X1.25	
25	2	JP10,JP11	173981-5	2MM5	R61-11248-2173	CONNECTOR 2MM AMP CT 5 POS ROHS	AMP	292161-5	
26	2	J1,J5	173981-7	2MM7	R61-11249-2173	CONNECTOR 2MM AMP CT 7 POS ROHS	Tyco electronics	292161-7	
27	1	J2	SSW-108-22-G-S-VS	BLKCON.100/SM/H100/W40/8	R61-11250-156	CONN SOCKET STRIP .100 8POS ROHS	Samtec	SSW-108-22-G-S-VS	
28	1	J3	SSW-105-22-G-S-VS	BLKCON.100/SM/H100/W40/5	R61-11251-156	CONN SOCKET STRIP .100 5POS ROHS	Samtec	SSW-105-22-G-S-VS	
29	1	J4	1-215079-2	ZIGZAG.100/L.850/12	R61-11252-2173	CONN MICRO MATCH BRD TO BRD ROHS	Tyco electronics	1-215079-2	
30	1	J6	1-173981-0	2MM10	R61-11256-2173	CONN 2MM AMP CT 10 POS ROHS	Tyco	1-292161-0	
31	2	J13,J11	68001-106	BLKCON.100V/VH/TM1SQ/W.100/6	61-11253-2229	BERGSTIK II .100CC SR STRAIGHT ROHS	FCI	68001-106	
32	1	J14	H.FL-R-SMT(C)(10)	HFLRFCON	R61-11254-2027	CONN RECEPT COAX FL SERIES SMD ROHS	HIROSE	H.FL-R-SMT(C)(10)	
33	1	K1	TQ2SA-L2-5V	LATCHRLY	49-1054-2227	RELAY LATCH LOPRO 2A 5VDC SMD	PANASONIC	TQ2SA-L2-5V	
34	1	LS1	GT-111PS	GT-111PS	R11-0027-2230	BUZER 2.048KHZ 1-4V EXT DRV ROHS	Soberton	GT-111PS	
35	1	L1	8.2nH	SM/L_0402	27-1070-389	INDUCTOR 8.2NH 5% 0402 SMD	PANASONIC	ELJ-NK8N2AF	
36	1	L2	6.8nH	SM/L_0402	27-1071-389	INDUCTOR 6.8NH 5% 0402 SMD	PANASONIC	ELJ-NK6N8AF	
37	2	L3,L5	22nH	SM/L_0402	R27-1072-2207	INDUCTOR HI FREQ 22NH 5% 0402 ROHS	PANASONIC	ELJ-NK22NAF	
38	1	L4	4.7nH	SM/L_0402	R27-1074-207	INDUCTOR 4.7NH 750MA 0402 ROHS	MURATA ELECTRONICS	LQW15AN4N7C00D	
39	1	L6	5.6nH	L_0402_RF	R27-1073-207	INDUCTOR 5.6NH 140MA 0402 ROHS	PANASONIC	ELJ-NK5N6ZF	
40	2	Q2,Q1	MMBT2907A	SM/SOT23_123	R23-00017-*	XTR SMD PNP 60V SOT-23 ROHS	FAIRCHILD SEMICONDUCTOR	MMBT2907A	
							Diodes Inc	MMBT2907A-7-F	
41	11	Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q14	MMBT5089LT1	SM/SOT23_123	R23-10079-*	TRANS GP SS NPN 25V LN SOT23 ROHS	FAIRCHILD SEMICONDUCTOR	MMBT5089LT1	
							On Semiconductor	MMBT5089LT1G	
42	1	Q13	ZXMP6A13	SM/SOT23_123	R23-10078-1680	MOSFET P-CH 60V 900MA SOT-23 ROHS	ZETEX	ZXMP6A13FTA	
43	1	Q16	2N7002E	SM/SOT23_123	R23-10080-298	MOSFET N CH TRENCH 60V SOT23 ROHS	NXP Semiconductors	2N7002E T/R	
44	2	R1,R2	120	SM/R_0805	R24-281200-045	RES 120 OHM 1%, 1/8W, 0805	Vishay	CRCW0805120R0FKEA	
45	3	R3,R6,R8	330K	SM/R_0805	R24-283303-045	RES, 330K OHM 1/8W 1% (0805)ROHS	Vishay	CRCW0805330K0FKEA	
46	10	R4,R5,R10,R11,R12,R13, R16,R17,R22,R27	2.2K	SM/R_0805	R24-270222-955	RES, 2.2K OHM 1/8W 5% (0805) ROHS	Yageo Corporation	RC0805JR-072K2L	
47	6	R7,R9,R40,R48,R53,R68	100K	SM/R_0805	R24-270104-389	RES 100K OHM 1/8W 5% 0805 ROHS	Vishay	CRCW0805100KJNEA	
48	10	R30,R31,R42,R45,R50,R52,R56,R63,R64,R66	10K	SM/R_0805	R24-270103-045	RES 10K OHM 1/8W 5% (0805) ROHS	Vishay	CRCW080510K0JNEA	
49	1	R18	4.7K	SM/R_0805	R24-270472-045	RES 4.7K OHM 1/8W 5% (0805)ROHS	Vishay	CRCW08054K70JNEA	
50	1	R19	20M	SM/R_0805	24-2802005-*	RES 20M OHM 1/8W 1% 0805	KOA	RK73B2ATTD206J	
51	10	R23,R32,R34,R35,R36,R37, R38,R39,R61,R65	1M	SM/R_0805	R24-270105-045	RES,1M OHM 1/8W 5% 0805 ROHS	KOA	RK73B2ATTD104J	RK73B2ALTD105J by KOA; MCR10EZHU105 by Rohm ;9C08052A1004JLHFT by Yageo or CRCW08051M00JNEA by Vishay
52	3	R25,R26,R49	22.1K	SM/R_0805	R24-282212-389	RES, 22.1K OHM 1/8W 1% (0805) PBF	Vishay	CRCW080522K1FKEA	

										ERJ-6ENF1502V by Panasonic or RK73H2ATTD1502F by KOA
53	1	R28	15K	SM/R_0805	24-281502-*	RES 15K OHM 1/8W 1% (0805)	Vishay	CRCW080515K0FKTA		
54	1	R29	150K	SM/R_0805	24-281503-*	RES, 150K OHM 1/8W 1% 0805 SMD	Panasonic	ERJ-6ENF1503V		
55	1	R33	200K	SM/R_0805	24-282003-*	RES,200K OHM 1/8W 1% (0805)	Panasonic ECG	ERJ-6ENF2003V		RK73H2ALTD2003F by KOA
56	5	R41,R43,R44,R46,R67	1K	SM/R_0805	R24-281001-389	RES, 1.0K OHM 1/8W 1% (0805) PBF	Panasonic ECG	ERJ-6ENF1001V		CRCW08051K00FKEA by Vishay/Dale RK73H2ATTD1001F by KOA, MCR10EZPF1001 by ROHM
57	1	R51	30.1K	SM/R_0805	R24-283012-*	RES, 30.1K OHM 1/8W 1% (0805) ROHS	Dale	CRCW080530K1FKEA		ERJ-6ENF3012V Panasonic
58	1	R54	182	SM/R_0805	R24-281820-389	RES, 182 OHM 1/8W 1% 0805 ROHS	Panasonic ECG	ERJ-6ENF1820V		
59	1	R55	200	SM/R_0402	R24-462000-*	RES 200 OHM 1/16W 1% 0402 SMD ROHS	Vishay	CRCW0402200RFKED		
60	2	R57,R58	1.00K	SM/R_0805	R24-270104-389	RES 1K OHM 1/8W 5% 0805 ROHS	Vishay	CRCW08051K00JNEA		
61	1	R59	N.U.	SM/R_0402						
62	1	R60	10	SM/R_0805	R24-281009-045	RES, 10 OHM 1/8W 1% (0805)ROHS	Vishay	CRCW080510R0FKEA		
63	1	S1	EVQ-PJU04K	EVQ_BUTTON	61-11245-389	SWITCH LT TOUCH 6X3.5 240GF SMD	Panasonic	EVQ-PJU04K		
64	2	T2,T1	BALUN	BALUN	27-1075-2219	TRANSFMR XFRMR BALUN RF 2.4GHZ SMD	TDK Corporation	HHM1521		
65	2	U1,U6	74HC04	SOG/.050/8/WG.244/L.375	R26-11652-298	IC INVERTER HEX TTL/LSTTL 14SOIC RO	ON SEMICONDUCTOR	74HC04		74HC04D-T by NXP Semiconductor
66	1	U2	MMDF2P02HD	SOG.050/8/WG.244/L.200	R23-10081-124	MOSFET P-CH DUAL 3.3A 20V 8SOIC ROH	ON SEMICONDUCTOR	MMDF2P02HD		
67	2	U8,U3	MSP430F149	QUAD.50M/64/WG12.60	R26-11651-174	IC 16BIT MCU 60KB FLASH 64-TQFP ROH	Texas Instruments	MSP430F149IPAG		
68	1	U4	MMDF3N02HD	SOG.050/8/WG.244/L.200	R23-10082-124	MOSFET PWR P-CH 20V 3.8A 8-SOIC ROH	ON SEMICONDUCTOR	MMDF3N02HD		
69	1	U5	OPA2349UA	SOG.050/8/WG.244/L.200	R26-11661-174	IC MICRO POWER OP AMP 8-SO ROHS	Texas Instruments	OPA2349UA		
70	2	U9,U7	AT45DB041B	MLF.050/8/WG.350/L.225	R26-11653-2028	IC, DATA FLASH, 16M, 2.5V, 8M1A ROH	Atmel	AT45DB161D-SU-2.5		
71	1	U10	MC13192	MLF32	R26-11654-2137	IC RF TRANSCEIVER 2.4GHZ 32-QFN ROH	Freescall	MC13192		
72	2	U15,U11	TPS76933	SOT235	26-11655-174	IC 3.3V 100MA LDO REG SOT-23-5	Texas instruments	TPS76933DBVT		
73	1	U12	MGA_82563	SOT363	R26-11656-2143	IC AMP MMIC GAAS 3V SOT-363 ROHS	Avago Technology	MGA_82563		
74	1	U13	UPG-2214	SOT363	R26-11658-332	IC,SPDT,SOT 363,UPG2214TB	NEC	UPG2214TB-A		
75	1	U14	MGA-85563	SOT363	R26-11657-2143	IC AMP RFIC LNA GAAS 3V SOT-363 ROH	Avago Technology	MGA-85563		
76	1	U16	TPS73950	SOT235	R26-11662-174	IC 5.0V 150MA LDO REG SOT-23-5 ROHS	Texas Instruments	TPS73950DBVT		
77	2	Y3,Y1	32.768KHz	CM200	R20-0022-2138	CRYSTAL 32.768 KHZ 6PF SMD ROHS	Citizen America Corporation	CM200S32.768KZBTR		
78	1	Y2	4.915MHz	HCM49	R20-0021-2138	CRYSTAL 4.9152 MHZ SMT 18PF ROHS	Citizen America Corporation	HCM49-4.9152MABJ-UT		
79	1	Y4	8.000MHz	HCM49	R20-0023-2138	CRYSTAL 8.000 MHZ SMT 18PF ROHS	Citizen America Corporation	HCM49-8.000MABJ-UT		
80	1	Y5	16.0MHz	CS10	R20-0024-2138	CRYSTAL 16.000 MHZ 18PF SMD ROHS	Citizen America Corporation	CS10-16.000MABJTR		
81	1	N/A	Shield cover		85-2042-1707	RF SHIELD COVER	Leader Tech	20X-CBSP-0.75X1.25X0.185		