

## ASMPCB-OSCI-OFFBOARD-2

ASMPCB-OSCI-OFFBOARD

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Quantity to Build: 1  
 Part List Revision: A  
 Purchase List Number: 001  
 List Release Date: 8/12/2021

Item	Qty	Part Number	Description	Reference
	Loc	Sort Code		
		Vendor Name	Vendor Part Number	Manf Name
				Manf Part Number
1	2	BW-244-552	Antenna 2.4GHz R/A SMA	
	* A1	ATEN 2.4GHz	Taoglas GW.26.0112	
		Digi-Key 931-1119-ND	Taoglas GW.26.0112	
2	50	BW-399-799	Cap ceramic 1.8pF 50V +-0.1pF COG/NPO 0603	
	* A2	CAPC-0603 1.8pF 50V	Kemet CBR06C189B5GAC	
		Digi-Key 399-17533-1-ND	Kemet CBR06C189B5GAC	
3	50	BW-096-113	Cap ceramic 2.5pF 50V +-0.1pF COG/NPO 0603	
	* A3	CAPC-0603 2.5pF 50V	Kemet CBR06C259B5GAC	
		Digi-Key 399-16159-1-ND	Kemet CBR06C259B5GAC	
4	50	BW-353-790	Cap ceramic 3.3pF 50V +-0.1pF COG/NPO 0603	
	* A4	CAPC-0603 3.3pF 50V	Kemet CBR06C339B5GAC	
		Digi-Key 399-CBR06C339B5GACCT-ND	Kemet CBR06C339B5GAC	
5	50	BW-554-177	Cap ceramic 3.7pF 50V +-0.1pF COG/NPO 0603	
	* A5	CAPC-0603 3.7pF 50V	Kemet CBR06C379B5GAC	
		Digi-Key 399-16177-1-ND	Kemet CBR06C379B5GAC	
6	50	BW-279-321	Cap ceramic 4pF 50V +-0.25pF COG/NPO 0603	
	* A6	CAPC-0603 4pF 50V	Kemet CBR06C409C5GAC	
		Digi-Key 399-CBR06C409C5GACCT-ND	Kemet CBR06C409C5GAC	
7	50	BW-949-233	Cap ceramic 4.5pF 50V +-0.1pF COG/NPO 0603	
	* A7	CAPC-0603 4.5pF 50V	Kemet CBR06C459B5GAC	
		Digi-Key 399-16189-1-ND	Kemet CBR06C459B5GAC	

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8	50	BW-385-334	Cap ceramic 5.1pF 250V +-0.25pF COG/NPO 0603	
	*A8	CAPC-0603 5.1pF 250V	Johanson 251R14S5R1CV4T	
		Digi-Key 712-1359-1-ND	Johanson Diele 251R14S5R1CV4T	
9	50	BW-219-248	Cap ceramic 5.3pF 50V +-0.1pF COG/NPO 0603	
	*B1	CAPC-0603 5.3pF 50V	Kemet CBR06C539B5GAC	
		Digi-Key 399-16203-1-ND	Kemet CBR06C539B5GAC	
10	50	BW-092-033	Cap ceramic 6.3pF 50V +-0.1pF COG/NPO 0603	
	*B2	CAPC-0603 6.3pF 50V	Kemet CBR06C639B5GAC	
		Digi-Key 399-16223-1-ND	Kemet CBR06C639B5GAC	
11	50	BW-528-951	Cap ceramic 7pF 50V +-0.1pF COG/NPO 0603	
	*B3	CAPC-0603 7pF 50V	Kemet CBR06C709B5GAC	
		Digi-Key 399-CBR06C709B5GACCT-ND	Kemet CBR06C709B5GAC	
12	50	BW-919-191	Cap ceramic 7.5pF 50V +-0.1pF COG/NPO 0603	
	*B4	CAPC-0603 7.5pF 50V	Kemet CBR06C759B5GAC	
		Digi-Key 399-16247-1-ND	Kemet CBR06C759B5GAC	
13	50	BW-272-590	Cap ceramic 8pF 50V +-0.1pF COG/NPO 0603	
	*B5	CAPC-0603 8pF 50V	Kemet CBR06C809B5GAC	
		Digi-Key 399-CBR06C809B5GACCT-ND	Kemet CBR06C809B5GAC	
14	4	BW-018-343	Con SMA-SMA adapter female jack str 50 ohm	
	*B6	ON-RF-ADPT SMA fem-fem	Amphenol RF 132169	
		Digi-Key ACX1242-ND	Amphenol RF 132169	

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15	3	BW-387-345	IC MMA-2A+ RF power amplifier 2.4GHz DQ849 pkg (QFN-8)	
	*B7	IC MNA-2A+	Mini Circuits MNA-2A+	
		Digi-Key 3157-MNA-2A+CT-ND	Mini Circuits MNA-2A+	
16	3	BW-553-322	IC MMA-5A+ RF power amplifier 2.4GHz DQ849 pkg (QFN-8)	
	*B8	IC MNA-5A+	Mini Circuits MNA-5A+	
		Digi-Key 3157-MNA-5A+CT-ND	Mini Circuits MNA-5A+	
17	50	BW-547-532	Inductor 1nH +-0.3nH 600 mA 0603 50 mohms	
	*C1	IND-0603 1nH 600mA	Würth 744786010A	
		Digi-Key 732-6251-1-ND	Würth 744786010A	
18	50	BW-004-442	Inductor 1.2nH +-0.3nH 600 mA 0603 50 mohms	
	*C2	IND-0603 1.2nH 600mA	Würth 744786012A	
		Digi-Key 732-6252-1-ND	Würth 744786012A	
19	50	BW-909-332	Inductor 1.5nH +-0.3nH 600 mA 0603 100 mohms	
	*C3	IND-0603 1.5nH 600mA	Würth 744786015A	
		Digi-Key 732-6253-1-ND	Würth 744786015A	
20	50	BW-877-700	Inductor 1.8nH +-0.3nH 600 mA 0603 100 mohms	
	*C4	IND-0603 1.8nH 600mA	Würth 744786018A	
		Digi-Key 732-6254-1-ND	Würth 744786018A	
21	50	BW-233-714	Inductor 2.2nH +-0.3nH 600 mA 0603 100 mohms	
	*C5	IND-0603 2.2nH 600mA	Würth 744786022A	
		Digi-Key 732-6255-1-ND	Würth 744786022A	

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22	50	BW-608-686	Inductor 2.4nH +-0.2nH 2.4 A 0603 260 mohms	
	*C6	IND-0603 2.4nH 2.4A	Murata LQW18AN2N4C80D	
		Digi-Key 490-14721-1-ND	Murata LQW18AN2N4C80D	
23	50	BW-003-895	Inductor 2.7nH +-0.3nH 600 mA 0603 120 mohms	
	*C7	IND-0603 2.7nH 600mA	Würth 744786027A	
		Digi-Key 732-6256-1-ND	Würth 744786027A	
24	50	BW-559-133	Inductor 3nH +-0.2nH 670 mA 0603 170 mohms	
	*C8	IND-0603 3nH 670mA	Murata LQW18AN3N0C8ZD	
		Digi-Key 490-15686-1-ND	Murata LQW18AN3N0C8ZD	
25	50	BW-658-014	Inductor 3.3nH +-0.3nH 600 mA 0603 150 mohms	
	*D1	IND-0603 3.3nH 600mA	Würth 744786033A	
		Digi-Key 732-6257-1-ND	Würth 744786033A	
26	50	BW-510-888	Inductor 3.6nH +-0.2nH 600 mA 0603 50 mohms	
	*D2	IND-0603 3.6nH 700mA	Würth 744761036A	
		Digi-Key 732-744761036ACT-ND	Würth 744761036A	
27	50	BW-677-776	Inductor 3.9nH +-0.1nH 2.2 A 0603 28 mohms	
	*D3	IND-0603 3.9nH 2.2A	Murata LQW18AN3N9B8ZD	
		Digi-Key 490-15687-1-ND	Murata LQW18AN3N9B8ZD	
28	50	BW-657-811	Inductor 4.2nH +-0.2nH 2.2 A 0603 28 mohms	
	*D4	IND-0603 4.2nH 2.2A	Murata LQW18AN4N2C8ZD	
		Digi-Key 490-15703-1-ND	Murata LQW18AN4N2C8ZD	

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29	50	BW-323-066	Inductor 4.7nH 2% 1.5 A 0603 54 mohms	
	*D5	IND-0603 4.7nH 1.5A	Murata LQW18AN4N7G8ZD	
		Digi-Key 490-15710-1-ND	Murata LQW18AN4N7G8ZD	
30	50	BW-654-293	Inductor 4.7nH 2% 1.5 A 0603 54 mohms	
	*D6	IND-0603 4.9nH 1.2A	Murata LQW18AN4N7G8ZD	
		Digi-Key 490-15712-1-ND	Murata LQW18AN4N9C8ZD	
31	50	BW-823-716	Inductor 5.1nH 2% 700 mA 0603 140 mohms	
	*D7	IND-0603 5.1nH 700mA	Murata LQW18AS5N1G0ZD	
		Digi-Key 490-15842-1-ND	Murata LQW18AS5N1G0ZD	
32	1	BW-788-861	MOD VCU-118 FPGA board	
	*D8	MOD FPGA VCU-118	Xilinx VCU-118	
		Digi-Key 122-2265-ND	Xilinx EK-U1-VCU118-G	
33	100	BW-764-694	Res 0 1/10W 0603	
	*E1	RES 0	Yageo RC0603JR-070RL	
		Digi-Key 311-0.0GRCT-ND	Yageo RC0603JR-070RL	
34	1	BW-344-488	Tools torque wrench East Coast Microwave ECM-2001	
	*E6	TOOL-TORQUE SMA	5/16" torque wrench for SMA RF connectors 8/-1 inch-lbs	
		East Coast Micro ECM-2001	East Coast Mic ECM-2001	
35	1	BW-080-690	VNA Fieldfox N9923A-106 (used) 6GHz	
	*E3	TEST-EQUIP VNA	Keysight N9923A-106	
		Keysight N9923A-106	Keysight N9923A-106	

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36	3	BW-174-083	Wrench fixed 5.5mm f/SMA fem-fem adapter	
	*E4	TOOL-HAND wrench	McMaster 55715A25	
		McMaster 55715A25	McMaster 55715A25	
37	3	BW-056-324	Wrench fixed 3/8" f/SMA end-launch bracket	
	*E5	TOOL-HAND wrench	McMaster 56945A59	
		McMaster 56945A59	McMaster 56945A59	
38	1	BW-483-466	Synthesized clock generator 2GHz	
	*E2	TEST-EQUIP Clock gen	SRS CG635	
		SRS CG635	SRS CG635	