ASMPCB-STAC-V1

ASMPCB-STAC-V1
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Quantity to Build:	1
Part List Revision:	A
BOM Date:	11/15/2023

Item	Qty	Part Number	Description	Reference
		Vendor Name	Vendor Part Number　　Manf Name　　Manf Part Number	
1	15	BW-224-068	Cap ceramic 10uF 25V 20% X5R 0603 Murata GRM188R61E106MA73D	C1 C3 C15 C16 C17 C18 C19 C20 C21 C22 C33 C34 C35 C36 C37
		Digi-Key　490-7202-1-ND	Murata　GRM188R61E106MA73D	
2	5	BW-998-821	Cap aluminum polymer 220uF 16V 20% SMD, 6.3mm dia. Panasonic 16SVPK220M	C2 C5 C6 C7 C8
		Digi-Key　P124158CT-ND	Panasonic　16SVPK220M	
3	15	BW-663-053	Cap ceramic 0.1uF 16V 5% X7R 0603 Kemet C0603C104J4RACTU	C4 C25 C26 C27 C28 C29 C30 C31 C38 C39 C40 C41 C42 C43 C44
		Digi-Key　399-1097-1-ND	Kemet　C0603C104J4RACTU	
4	6	BW-171-235	Cap ceramic 4.7uF 35V 10% X5R 0603 Murata GRM188R6YA75KE15D	C9 C10 C12 C13 C23 C24
		Digi-Key　490-7205-1-ND	Murata　GRM188R6YA75KE15D	
5	2	BW-367-353	Cap ceramic 0.47uF 10V 10% X7R 0603 Yageo CC0603KRX7R6BB474	C11 C14
		Digi-Key　311-1798-1-ND	Yageo　CC0603KRX7R6BB474	
6	1	BW-183-150	Cap ceramic 3.3uF 10V 10% X5R 0603 Samsung CL10A335KP8NNNC	C32
		Digi-Key　1276-1892-1-ND	Samsung　CL10A335KP8NNNC	
7	1	BW-747-432	LED 565nm (green) 2.2V 0603 surface-mount Lumex SML-LX0603GW-TR	D1
		Digi-Key　67-1549-1-ND	Lumex　SML-LX0603GW-TR	
8	2	BW-885-747	LED 470nm (blue) 2.65V 2mA 0603 SMT Kingbright APT1608LVBC/D	D2 D3
		Digi-Key　754-1933-1-ND	Kingbright　APT1608LVBC/D	
9	1	BW-087-782	LED 631nm (red) 2V 5mA 0603 SMT Lite-On LTST-C193KRKT-5A	D4
		Digi-Key　160-1830-1-ND	Liteon　LTST-C193KRKT-5A	
10	3	BW-491-171	Con 4 pin 100 mil pitch 1x4 TSW str male thru 0.230" post he Samtec TSW-104-07-G-S	J1 J3 J9
		Digi-Key　SAM1029-04-ND	Samtec　TSW-104-07-G-S	
11	1	BW-350-204	Con 6 pin 2.5mm pitch 2x3 Nano Fit RA male thru shrouded Molex 1053141106	J2
		Digi-Key　WM16908-ND	Molex　1053141106	

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12	2	BW-517-054		Con 3 pin 100 mil pitch 1x3 TSW str male thru 0.230" post he Samtec TSW-103-07-G-S		J4 J5
		Digi-Key SAM1029-03-ND		Samtec	TSW-103-07-G-S	
13	3	BW-220-198		Con 12 pin 100 mil pitch 2x5 TSW RA male thru 0.230" post ł Samtec TSW-106-08-L-D-RA		J6 J10 J12
		Digi-Key SAM1041-06-ND		Samtec	TSW-106-08-L-D-RA	
14	7	BW-867-891		Con SMA female jack end launch 50 ohm 18GHz PCB long pin Cinch 142-0701-801		J7 J8 J11 J13 J15 J17 J18
		Digi-Key J502-ND		Cinch	142-0701-801	
15	2	BW-510-530		Con 16 pin 100 mil pitch 2x8 TSW str male thru Samtec TSW-108-07-L-D		J14 J16
		Digi-Key SAM1030-08-ND		Samtec	TSW-108-07-L-D	
16	1	BW-536-719		Con USB-C 2.0 recp R/A SMT Amphenol 12402012E212A		J19
		Digi-Key 664-12402012E212ACT-ND		Amphenol Comme	12402012E212A	
17	1	BW-038-636		Con 2 pin 100 mil pitch 1x2 TSW str male thru 0.230" post he Samtec TSW-102-07-G-S		J20
		Digi-Key SAM1029-02-ND		Samtec	TSW-102-07-G-S	
18	1	BW-812-714		Res 909 1% 1/10W 0603 Panasonic ERJ-3EKF9090V		R1
		Digi-Key P909HCT-ND		Panasonic	ERJ-3EKF9090V	
19	1	BW-606-753		Res 93.1K 1% 1/10W 0603 Panasonic ERJ-3EKF9312V		R2
		Digi-Key P93.1KHCT-ND		Panasonic	ERJ-3EKF9312V	
20	1	BW-760-287		Res 200K 1% 1/10W 0603 Panasonic ERJ-3EKF2003V		R3
		Digi-Key P200KHCT-ND		Panasonic	ERJ-3EKF2003V	
21	1	BW-514-032		Res 510K 1% 1/10W 0603 Panasonic ERJ-3EKF5103V		R4
		Digi-Key P510KHCT-ND		Panasonic	ERJ-3EKF5103V	
22	1	BW-421-162		Res 2.7M 5% 1/10W 0603 Panasonic ERJ-3GEYJ275V		R5
		Digi-Key P2.7MGCT-ND		Panasonic	ERJ-3GEYJ275V	
23	1	BW-446-612		Res 15K 1% 1/10W 0603 Panasonic		R6
		Digi-Key P15.0KHCT-ND		Panasonic	ERJ-3EKF1502V	
24	1	BW-131-959		Res 82.5K 1% 1/10W 0603 Panasonic ERJ-3EKF8252V		R7
		Digi-Key P82.5KHCT-ND		Panasonic	ERJ-3EKF8252V	

Item	Qty	Part Number	Description	Reference
		Vendor Name Vendor Part Number	Manf Name Manf Part Number	
25	3	BW-354-763	Res 301 1% 1/10W 0603 Panasonic ERA-3AEB3010V	R8 R11 R13
		Digi-Key P301DBCT-ND	Panasonic ERA-3AEB3010V	
26	1	BW-257-784	Res var trimmer pot 5K 1/4W 3-pin SMT Bourns 3214X-1-502E	R9
		Digi-Key 3214X-1-502ECT-ND	Bourns 3214X-1-502E	
27	1	BW-560-201	Res 215K 1% 1/10W 0603 Panasonic ERJ-3EKF2153V	R10
		Digi-Key P215KHCT-ND	Panasonic ERJ-3EKF2153V	
28	1	BW-628-791	Res 33.2K 1% 1/10W 0603 Panasonic ERJ-3EKF3322V	R12
		Digi-Key P33.2KHCT-ND	Panasonic ERJ-3EKF3322V	
29	1	BW-764-694	Res 0 1/10W 0603 Yageo RC0603JR-070RL	R14
		Digi-Key 311-0.0GRCT-ND	Yageo RC0603JR-070RL	
30	3	BW-796-398	Res 330 5% 1/10W 0603 Panasonic ERJ-3GEYJ331V	R15 R16 R17
		Digi-Key P330GCT-ND	Panasonic ERJ-3GEYJ331V	
31	2	BW-592-449	Res 27 1% 1/10W 0603 Panasonic ERJ-3EKF27R0V	R18 R19
		Digi-Key P27.0HCT-ND	Panasonic ERJ-3EKF27R0V	
32	13	BW-200-113	Res 5.1K 1% 1/10W 0603 Panasonic ERJ-3EKF5101V	R20 R21 R27 R28 R29 R30 R32 R34 R36 R37 R38 R40 R41
		Digi-Key P5.10KHCT-ND	Panasonic ERJ-3EKF5101V	
33	7	BW-038-468	Res 10K 1% 1/10W 0603 Yageo RC0603FR-0710KL	R23 R24 R25 R31 R33 R35 R39
		Digi-Key 311-10.0KHRCT-ND	Yageo RC0603FR-0710KL	
34	1	BW-528-389	Res 12K 0.5% 1/10W 0603 Panasonic	R26
		Digi-Key P123739CT-ND	Panasonic ERA-3AED123V	
35	1	BW-431-238	Switch slide SPDT ST thru Wurth 450301014042	S1
		Digi-Key 450301014042-ND	Wurth 450301014042	
36	3	BW-591-967	Switch momentary SPST-NO tactile 2 pin J-lead low-profile 2 C&K PTS636 SK25J SMTR LFS	S2 S4 S5
		Digi-Key CKN12326-1-ND	C&K PTS636 SK25J SMTR LFS	
37	1	BW-020-728	Switch DIP 4 position, 8 pin, SPST SMT Wurth 418121270804	S3
		Digi-Key 732-6963-1-ND	Wurth 418121270804	

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		Vendor Name	Vendor Part Number	Manf Name		Manf Part Number	
38	1	BW-602-053	Test point loop 63mil dia hole orange Keystone 5008				T4
		Digi-Key 36-5008-ND		Keystone		5008	
39	1	BW-966-768	Test point loop 63mil dia hole black Keystone 5006				T10
		Digi-Key 36-5006-ND		Keystone		5006	
40	2	BW-067-710	Test point loop 63mil dia hole yellow Keystone 5009				T11 T12
		Digi-Key 36-5009-ND		Keystone		5009	
41	1	BW-849-997	IC LT3083 LDO regulator 3A DDPAK-5 Analog Devices LT3083EQ#PBF				U1
		Digi-Key 505-LT3083EQ#PBF-ND		Analog Devices		LT3083EQ#PBF	
42	1	BW-471-924	MOSFET N-CH dual 60V 35A SOT-1205 Nexperia BUK9K12-60EX				U2
		Digi-Key 1727-1897-1-ND		Nexperia		BUK9K12-60EX	
43	2	BW-746-991	IC LT3042 adj LDO regulator 200mA MSOP-EP-10 Analog Devices LT3042IMSE#TRPBF				U3 U5
		Digi-Key LT3042IMSE#TRPBFCT-ND		Analog Devices		LT3042IMSE#TRPBF	
44	1	BW-843-693	IC LTC4365CTS8#TRMPBF Analog Devices LTC4365 Surge Surpressor				U4
		Digi-Key 505-LTC4365CTS8#TRMPBFCT-ND		Analog Devices		LTC4365CTS8#TRMPBF	
45	1	BW-023-157	IC custom STAC-V1 die 64 pins 0.5mm pitch QFN-64 w/EP BWRC				U6
46	1	BW-157-496	IC FT2232HL USB to UART/FIFO LQFP-64 FTDI FT2232HL				U7
		Digi-Key 768-1024-1-ND		FTDI		FT2232HL-REEL	
47	1	BW-674-698	IC TS3A27518EPWR 6-ch analog mux TSSOP-24 TI TS3A27518EPWR				U8
		Digi-Key 296-24570-1-ND		Texas Instrume		TS3A27518EPWR	
48	1	BW-250-920	IC IS25LP128-JBLE 128Mbit QSPI flash SOIC-8 ISSI IS25LP128-JBLE				U9
		Digi-Key 706-1341-ND		ISSI		IS25LP128-JBLE	
49	1	BW-818-101	IC APS6404L-3SQR-SN PseudoSRAM PSRAM 8Mx8bits SPI/QS AP Memory APS6404L-3SQR-SN				U10
		Mouser 878-APS6404L-3SQR-SN		AP Memory		APS6404L-3SQR-SN	
50	1	BW-479-949	Osc 12MHz with capacitors 3-pin Murata CSTNE12M0GH5L000R0				X1
		Digi-Key 490-17947-1-ND		Murata		CSTNE12M0GH5L000R0	

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