

ASMPCB-STAC-V1

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Quantity to Build: 1
 Part List Revision: A
 Purchase List Number: 001
 List Release Date: 10/26/2023

Item	Qty	Part Number	Description	Reference
	Loc	Sort Code		
	Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
1	1	BW-023-157	IC custom STAC-V1 die 64 pins 0.5mm pitch QFN-64 w/EP	U6
	*B3	DIE-CUSTOM STAC-V1	BWRC	
		None		
2	2	BW-367-353	Cap ceramic 0.47uF 10V 10% X7R 0603	C9 C12
	*A2	CAPC-0603 0.47uF 10V	Yageo CC0603KRX7R6BB474	
		Digi-Key 311-1798-1-ND	Yageo CC0603KRX7R6BB474	
3	4	BW-171-235	Cap ceramic 4.7uF 35V 10% X5R 0603	C7 C8 C10 C11
	*A3	CAPC-0603 4.7uF 35V	Murata GRM188R6YA75KE15D	
		Digi-Key 490-7205-1-ND	Murata GRM188R6YA75KE15D	
4	3	BW-510-530	Con 16 pin 100 mil pitch 2x8 TSW str male thru	J12 J14 J15
	*A8	CON-100 TSW 16	Samtec TSW-108-07-L-D	
		Digi-Key SAM1030-08-ND	Samtec TSW-108-07-L-D	
5	1	BW-350-204	Con 6 pin 2.5mm pitch 2x3 Nano Fit RA male thru shrouded	J5
	*B1	CON-2.5MM Nano Fit 6	Molex 1053141106	
		Digi-Key WM16908-ND	Molex 1053141106	
6	7	BW-867-891	Con SMA female jack end launch 50 ohm 18GHz PCB long pin	J6 J8 J10 J11 J13 J16 J17
	*B2	CON-RF SMA edge mnt	Cinch 142-0701-801	
		Digi-Key J502-ND	Cinch 142-0701-801	
7	2	BW-746-991	IC LT3042 adj LDO regulator 200mA MSOP-EP-10	U4 U5
	*B4	IC LT3042	Analog Devices LT3042IMSE#TRPBF	
		Digi-Key LT3042IMSE#TRPBFCT-ND	Analog Devices LT3042IMSE#TRPBF	

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8	1	BW-849-997	IC LT3083 LDO regulator 3A DDPK-5	U2
	*B5	IC LT3083	Analog Devices LT3083EQ#PBF	
		Digi-Key 505-LT3083EQ#PBF-ND	Analog Devices LT3083EQ#PBF	
9	1	BW-747-432	LED 565nm (green) 2.2V 0603 surface-mount	D1
	*B7	LED green	Lumex SML-LX0603GW-TR	
		Digi-Key 67-1549-1-ND	Lumex SML-LX0603GW-TR	
10	1	BW-471-924	MOSFET N-CH dual 60V 35A SOT-1205	U1
	*B8	Q-NMOS BUK9K12-60EX	Nexperia BUK9K12-60EX	
		Digi-Key 1727-1897-1-ND	Nexperia BUK9K12-60EX	
11	3	BW-354-763	Res 301 1% 1/10W 0603	R9 R12 R13
	*C1	R1%-0603 301	Panasonic ERA-3AEB3010V	
		Digi-Key P301DBCT-ND	Panasonic ERA-3AEB3010V	
12	1	BW-812-714	Res 909 1% 1/10W 0603	R4
	*C2	R1%-0603 909	Panasonic ERJ-3EKF9090V	
		Digi-Key P909HCT-ND	Panasonic ERJ-3EKF9090V	
13	1	BW-446-612	Res 15K 1% 1/10W 0603	R8
	*C3	R1%-0603 15K	Panasonic	
		Digi-Key P15.0KHCT-ND	Panasonic ERJ-3EKF1502V	
14	1	BW-628-791	Res 33.2K 1% 1/10W 0603	R11
	*C4	R1%-0603 33.2K	Panasonic ERJ-3EKF3322V	
		Digi-Key P33.2KHCT-ND	Panasonic ERJ-3EKF3322V	

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15	1	BW-131-959	Res 82.5K 1% 1/10W 0603	R6
	*C5	R1%-0603 82.5K	Panasonic ERJ-3EKF8252V	
		Digi-Key P82.5KHCT-ND	Panasonic ERJ-3EKF8252V	
16	1	BW-606-753	Res 93.1K 1% 1/10W 0603	R5
	*C6	R1%-0603 93.1K	Panasonic ERJ-3EKF9312V	
		Digi-Key P93.1KHCT-ND	Panasonic ERJ-3EKF9312V	
17	1	BW-760-287	Res 200K 1% 1/10W 0603	R1
	*C7	R1%-0603 200K	Panasonic ERJ-3EKF2003V	
		Digi-Key P200KHCT-ND	Panasonic ERJ-3EKF2003V	
18	1	BW-560-201	Res 215K 1% 1/10W 0603	R7
	*C8	R1%-0603 215K	Panasonic ERJ-3EKF2153V	
		Digi-Key P215KHCT-ND	Panasonic ERJ-3EKF2153V	
19	1	BW-514-032	Res 510K 1% 1/10W 0603	R2
	*D1	R1%-0603 510K	Panasonic ERJ-3EKF5103V	
		Digi-Key P510KHCT-ND	Panasonic ERJ-3EKF5103V	
20	1	BW-421-162	Res 2.7M 5% 1/10W 0603	R3
	*D2	R5%-0603 2.7M	Panasonic ERJ-3GEYJ275V	
		Digi-Key P2.7MGCT-ND	Panasonic ERJ-3GEYJ275V	
21	1	BW-257-784	Res var trimmer pot 5K 1/4W 3-pin SMT	R10
	*D3	RVAR 5K	Bourns 3214X-1-502E	
		Digi-Key 3214X-1-502ECT-ND	Bourns 3214X-1-502E	

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22	1	BW-431-238	Switch slide SPDT ST thru	S1
	*D4	SW SPDT	Wurth 450301014042	
		Digi-Key 450301014042-ND	Wurth 450301014042	
23	1	BW-966-768	Test point loop 63mil dia hole black	T9
	*D6	TEST-PT 1	Keystone 5006	
		Digi-Key 36-5006-ND	Keystone 5006	
24	2	BW-220-198	Con 12 pin 100 mil pitch 2x5 TSW RA male thru 0.230" post t	J7 J9
	*A7	CON-100 TSW 12	Samtec TSW-106-08-L-D-RA	
		Digikey SAM1041-06-ND	Samtec TSW-106-08-L-D-RA	
25	1	BW-663-053	Cap ceramic 0.1uF 16V 5% X7R 0603	C6
	*A1	CAPC-0603 0.1uF 16V	Kemet C0603C104J4RACTU	
		Mouser 80-C0603C104J4R	Kemet C0603C104J4RACTU	
		Digi-Key 399-1097-1-ND		
26	10	BW-224-068	Cap ceramic 10uF 25V 20% X5R 0603	C4 C5 C15 C16 C17 C18 C19 C20 C21 C22
	*A4	CAPC-0603 10uF 25V	Murata GRM188R61E106MA73D	
		Mouser 81-GRM188R61E106MA3D	Murata GRM188R61E106MA73D	
		Digi-Key 490-7202-1-ND		
27	5	BW-998-821	Cap aluminum polymer 220uF 16V 20% SMD, 6.3mm dia.	C1 C2 C3 C13 C14
	*A5	CAPE-AL-GP 220uF 16V	Panasonic 16SVPK220M	
		Mouser 667-16SVPK220M	Panasonic 16SVPK220M	
28	4	BW-517-054	Con 3 pin 100 mil pitch 1x3 TSW str male thru 0.230" post he	J1 J2 J3 J4
	*A6	CON-100 TSW 3	Samtec TSW-103-07-G-S	
		Mouser 200-TSW10307GS	Samtec TSW-103-07-G-S	
		Digi-Key SAM1029-03-ND		

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29	1	BW-843-693	IC LTC4365CTS8#TRMPBF	U3
	*B6	IC LTC4365CTS8#TRMPBF	Analog Devices LTC4365 Surge Suppressor	
		Mouser 584-C4365CTS8TRMPBF	Analog Devices LTC4365CTS8#TRMPBF	
30	1	BW-602-053	Test point loop 63mil dia hole orange	T4
	*D5	TEST-PT 1	Keystone 5008	
		Mouser 534-5008	Keystone 5008	
		Digi-Key 36-5008-ND		