

ASMPCB-BB25E

Finished Good BB25E

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Quantity to Build: 1

Part List Revision: A

BOM Date: 03/30/2016

Item Loc	Qty	Part Number Sort Code	Description	Reference	
		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
1	2	IND-064-531 CAPE-AL-LZ 100uf 35V	Cap Electrolytic 100uf 35V .34 Ohm SMT Case D8 6.3mm Dia 7.7 High		C1 C42
		Mouser Electroni	667-EEE-FK1V101XP	Panasonic	EEE-FK1V101XP
2	10	IND-972-050 CAPC-1206 10uf 35V	Cap Ceramic Chip 10uf 35V 10% X5R 1206		C2 C3 C12 C13 C34 C35 C36 C37 C38 C39
		Mouser Electroni	81-GRM319R6YA106KA2D	Murata	GRM319R6YA106KA12D
3	2	IND-413-313 CAPE-AL-SP 220uf 6.3V	Cap Elec Solid Polymer 220uf 6.3V .025 Ohm SMT Case E 8mm Dia 6.5mm High		C4 C9
		Mouser Electroni	APXA6R3ARA221MH70G	United Chem Co	APXA6R3ARA221MH70G
4	1	IND-310-407 CAPC-0603 330pf 100V	Cap Ceramic Chip 330pf 100V 5% NPO 0603		C5
		Mouser Electroni	81-GRM185C2A331JA01D	Murata	GRM1885C2A331JA01D
5	11	IND-019-434 CAPC-0603 .1uf 50V	Cap Ceramic Chip .1uf 50V 10% X7R 0603		C6 C14 C15 C16 C17 C19 C20 C27 C29 C30 C44
		Mouser Electroni	581-06035C104KAT2A	AVX	06035C104KAT2A
6	1	IND-578-916 CAPC-0603 100pf 100V	Cap Ceramic Chip 100pf 100V 5% NPO 0603		C8
		Mouser Electroni	603-CC603JRNPO0BN101	Yageo	CC0603JRNPO0BN101
7	2	IND-372-185 CAPE-AL-LZ 47uf 35V	Cap Electrolytic 47uf 35V General Purpose SMT Case E 8mm Dia 6.5mm High		C10 C11
		Mouser Electroni	667-EEE-FC1V470AP	Panasonic	EEE-FC1V470AP
8	7	IND-084-150 CAPC-0603 1.0uf 50V	Cap Ceramic Chip 1.0uf 50V 10% X5R 0603		C18 C25 C26 C28 C40 C41 C43
		Mouser Electroni	963-UMK107BJ105KA-T	Taiyo Yuden	UMK107BJ105KA-T
9	3	IND-774-833 CAPC-0603 22pf 100V	Cap Ceramic Chip 22pf 100V 5% COG 0603		C21 C22 C46
		Mouser Electroni	581-06031A220J	AVX	06031A220JAT2A
10	1	IND-873-551 CAPE-AL-GP 220uf 6.3V	Cap Electrolytic 220uf 6.3V General Purpose SMT Case D 6.3mm Dia 5.8 High		C23
		Mouser Electroni	667-EEE-FK0J221P	Panasonic	ECE-V0JA221WP
11	1	IND-338-752 CAPC-0603 1000PF 100V	Cap Ceramic Chip 1000pf 100V 5% NPO 0603		C24
		Mouser Electroni	810-C1608C0G2A102J	TDK	C1608C0G2A102J080AA

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12	4	IND-997-656 CAPC-0603 0.01uf 100V	Cap Ceramic Chip .01uf 100V 10% X7R 0603	C31 C32 C45 C47
		Mouser Electroni	81-GRM188R72A103KA1D	Murata GRM188R72A103KA01D
13	3	IND-603-332 D-SHTKY MBRS240 SMB	Diode Schottky MBRS240 40V 2Amp Low Vf SMB	D1 D2 D10
		Mouser Electroni	863-MBRS240LT3G	ON Semiconduct MBRS240LT3G
14	2	IND-109-863 D-SHTKY DFLS1200 200V	Diode Schottky DFLS1200-7 200V 1Amp	D3 D4
		Mouser Electroni	621-DFLS1200-F	Diodes Inc DFLS1200-7
15	1	IND-452-621 D-ZENER 3.6V MELF	Diode Zener 3.6V 5% 500mw Mini MELF 1N5227	D5
		Mouser Electroni	833-BZV55C3V6-TP	MCC Micro Comm BZV55C3V6-TP
16	1	IND-888-424 D-ZENER 12V MELF	Diode Zener 12V 5% 500mw Mini MELF 1N5242	D6
		Mouser Electroni	833-BZV55C12-TP	MCC Micro Comm BZV55C12-TP
17	1	IND-767-892 D-SHTKY MBRS340 SMC	Diode Schottky MBRS340 1N5822 40V 3Amp SMC	D7
		Mouser Electroni	863-MBRS340T3G	ON Semiconduct MBRS340T3G
18	1	IND-529-629 LED Green 0603	LED Green 0603	D8
		Mouser Electroni	859-LTST-C190KGKT	Liteon LTST-C190KGKT
19	1	IND-280-635 D-PNUF BAV103 MELF	Diode Ultra Fast BAV103 200V 600ma MELF	D9
		Mouser Electroni	512-BAV103	Fairchild BAV103
20	1	IND-101-519 D-PN BAV70 SOT23	Diode Small Signal BAV70 100V 200ma Common Cathode SOT-23	D11
		Mouser Electroni	512-BAV70	Fairchild BAV70
21	1	IND-855-687 D-ZENER 43V MELF	Diode Zener 43V 5% 500mw Mini MELF 1N5260	D12
		Mouser Electroni	833-DL5260B-TP	MCC Micro Comm DL5260B-TP
22	1	IND-407-219 D-ZENER 3.9V MELF	Diode Zener 3.9V 5% 500mw Mini MELF 1N5228	D13
		Mouser Electroni	833-BZV55C3V9-TP	MCC Micro Comm BZV55C3V9-TP
23	1	IND-123-509 D-ZENER 6.0V MELF	Diode Zener 6.0V 5% 500mw Mini MELF 1N5233	D14
		Digi-Key Corpora	ZMM5233BDICT-ND	Diodes Inc ZMM5233B-7
24	1	IND-162-922 D-PN 1N4148 SOD-323	Diode Small Signal 1N4148W 100V 150ma SOD-323	D16
		Digi-Key Corpora	1N4148WXTMSCT-ND	

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Vendor Name		Vendor Part Number	Manf Name	Manf Part Number
25	1	IND-527-495 IND-DRUM 4.7uh 5A	Inductor Drum 4.7uh 5A ,018 Ohm	L1
Index Designs		IND-DRUM-4.7UH-5A	Index Designs	IND-DRUM-4.7UH-5A
26	1	IND-459-781 CON-D 25 Pin Male SMT	Con 25 Pin D Male Right Angle SMT PCB Mount	P1
Arrow		154198	ERNI	154198
27	2	IND-141-749 Q-NMOS IRLR024N 55V	Transistor MOSFET IRLR024N N Chan .065 Ohm 55V DPAK	Q1 Q3
Mouser Electroni		942-IRLR024NTRPBF	Internation Re	IRLR024NTRPBF
28	2	IND-628-236 Q-PNP 2N3906 40V	Transistor 2N3906 PNP 40V 200ma SOT-23 SMT	Q2 Q7
Mouser Electroni		512-MMBT3906	Fairchild	MMBT3906
29	3	IND-515-300 Q-NPN 2N3904	Transistor 2N3904 NPN 40V 200ma SOT-23 SMT	Q4 Q5 Q6
Mouser Electroni		512-MMBT3904	Fairchild	MMBT3904
30	1	IND-222-611 Q-NMOS 2N7002	Transistor 2N7002 MOSFET N-Chan 7.5 Ohm 60V SOT-23 SM	Q8
Mouser Electroni		512-2N7002	Fairchild	2N7002
31	4	IND-437-270 R5%-0603 510K	Res 510K Ohm 5% 1/16W 0603	R1 R5 R12 R26
Mouser Electroni		667-ERJ-3GEYJ514V	Panasonic	ERJ-3GEYJ514V
32	2	IND-565-380 R5%-1206 150	Res 150 Ohm 5% 1/4W 1206	R2 R17
Mouser Electroni		667-ERJ-8GEYJ151V	Panasonic	ERJ-8GEYJ151V
33	1	IND-294-525 R5%-1206 2.2K	Res 2.2K Ohm 5% 1/4W 1206	R3
Mouser Electroni		667-ERJ-8GEYJ222V	Panasonic	ERJ-8GEYJ222V
34	4	IND-614-196 R5%-0603 10K	Res 10K Ohm 5% 1/16W 0603	R4 R14 R16 R35
Mouser Electroni		667-ERJ-3GEYJ103V	Panasonic	ERJ-3GEYJ103V
35	3	IND-411-284 R1%-0603 20.5K	Res 20.5K Ohm 1% 1/16W 0603	R6 R28 R31
Mouser Electroni		667-ERJ-3EKF2052V	Panasonic	ERJ-3EKF2052V
36	2	IND-474-478 R5%-0603 5.1	Res 5.1 Ohm 5% 1/16W 0603	R7 R13
Mouser Electroni		667-ERJ-3GEYJ5R1V	Panasonic	ERJ-3GEYJ5R1V
37	2	IND-085-201 R5%-0603 100	Res 100 Ohm 5% 1/16W 0603	R8 R30
Mouser Electroni		667-ERJ-3GEYJ101V	Panasonic	ERJ-3GEYJ101V

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		Vendor Name	Vendor Part Number	Manf Name Manf Part Number
38	3	IND-250-273 R5%-0603 1.0K	Res 1.0K Ohm 5% 1/16W 0603	R9 R27 R48
		Mouser Electroni	667-ERJ-3GEYJ102V	Panasonic ERJ-3GEYJ102V
39	1	IND-441-893 R5%-0603 510	Res 510 Ohm 5% 1/16W 0603	R10
		Mouser Electroni	667-ERJ-3GEYJ511V	Panasonic ERJ-3GEYJ511V
40	1	IND-227-448 R1%-2512 .01	Res 0.01 Ohm 1% 1W 2512	R11
		Mouser Electroni	667-ERJ-M1WSF10MU	Panasonic ERJ-M1WSF10MU
41	4	IND-997-238 R5%-0603 100K	Res 100K Ohm 5% 1/16W 0603	R15 R38 R40 R49
		Mouser Electroni	667-ERJ-3GEYJ104V	Panasonic ERJ-3GEYJ104V
42	5	IND-554-645 R1%-0603 4.99K	Res 4.99K Ohm 1% 1/16W 0603	R18 R23 R24 R32 R36
		Mouser Electroni	667-ERJ-3EKF4991V	Panasonic ERJ-3EKF4991V
43	3	IND-998-791 R1%-0603 56.2K	Res 56.2K Ohm 1% 1/16W 0603	R19 R21 R33
		Mouser Electroni	667-ERJ-3EKF5622V	Panasonic ERJ-3EKF5622V
44	1	IND-678-719 R1%-0603 10.2K	Res 10.2K Ohm 1% 1/16W 0603	R20
		Mouser Electroni	667-ERJ-3EKF1022V	Panasonic ERJ-3EKF1022V
45	1	IND-159-696 R5%-0603 240	Res 240 Ohm 5% 1/16W 0603	R22
		Mouser Electroni	667-ERJ-3GEYJ241V	Panasonic ERJ-3GEYJ241V
46	1	IND-483-214 R5%-0603 16K	Res 16K Ohm 5% 1/16W 0603	R25
		Mouser Electroni	667-ERJ-3GEYJ163V	Panasonic ERJ-3GEYJ163V
47	1	IND-086-927 R1%-0603 1.00M	Res 1.00M Ohm 1% 1/16W 0603	R29
		Mouser Electroni	667-ERJ-3EKF1004V	Panasonic ERJ-3EKF1004V
48	2	IND-434-349 R5%-1206 2.4	Res 2.4 Ohm 5% 1/4W 1206	R34 R39
		Mouser Electroni	667-ERJ-8GEYJ2R4V	Panasonic ERJ-8GEYJ2R4V
49	2	IND-746-091 R1%-0603 49.9K	Res 49.9K Ohm 1% 1/16W 0603	R37 R44
		Mouser Electroni	667-ERJ-3EKF4992V	Panasonic ERJ-3EKF4992V
50	1	IND-593-588 R5%-0603 10M	Res 10M Ohm 1/16W 5% 0603	R41
		Mouser Electroni	667-ERJ-3GEYJ106V	Panasonic ERJ-3GEYJ106V

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
51	1	IND-964-247 R5%-0603 200K	Res 200K Ohm 5% 1/16W 0603		R42
		Mouser Electroni	667-ERJ-3GEYJ204V	Panasonic	ERJ-3GEYJ204V
52	1	IND-533-027 R1%-0603 31.6K	Res 31.6K Ohm 1% 1/16W 0603		R43
		Mouser Electroni	667-ERJ-3EKF3162V	Panasonic	667-ERJ-P03F3162V
53	2	IND-941-745 R5%-0603 3.0K	Res 3.0K Ohm 5% 1/16W 0603		R50 R51
		Mouser Electroni	667-ERJ-3GEYJ302V	Panasonic	ERJ-3GEYJ302V
54	2	IND-029-305 RES-NWRK 10K 3.2x1.6mm	Res Ntwk 10K Isolated Quad 3.2x1.6mm 8 Pin		RN1 RN2
		Mouser Electroni	667-EXB-V8V103JV	Panasonic	EXB-V8V103JV
55	1	IND-199-717 SW-PUSH 4.3x2.9mm	Switch SPST Momentary 4.3mmx2.9mm EVP Tactile SMT		SW1
		Mouser Electroni	667-EVP-AA702W	Panasonic	EVP-AA702W
56	1	IND-206-309 XF-EFD 20E07P15V	Transformer Custom EFD20 Flyback 8.5uh Primary 5V Sec wi XF20E07P15		T1
		Index Designs	IND-206-309	Index Designs	20E07P15V
57	1	IND-731-861 IND CM 1.7mh 3A SMT	Inductor Common Mode Toroid 1.7mh 3A SMT		T2
		Index Designs	SMT-CMODE-SMT	Index Designs	SMT-CMODE-SMT
58	1	IND-095-741 XF-EFD 20E12CM	Transformer Custom EFD20 Common Mode Choke		T3
		Index Designs	IND-095-741	Index Designs	20E12CM
59	1	IND-741-747 IC MAX3221	IC MAX3221 RS-232 Transceiver 3.3 to 5.5 Volt TSSOP 16 Pin		U1
		Mouser Electroni	595-MAX3221CPWR	Texas Instrume	MAX3221CPWR
60	1	IND-306-433 IC LM3481	IC LM3481 Switch Reg Current Mode 10 Pin MSOP		U2
		Mouser Electroni	926-LM3481MM/NOPB	Texas Instrume	LM3481MM/NOPB
61	1	IND-456-517 IC PIC18F26K20-SOIC	IC PIC18F26K20 Processor 8 Bit 2.3V to 5V 28 Pin SOIC		U3
		Mouser Electroni	579-PIC18F26K20-I/SO	Microchip	PIC18F26K20-I/SO
62	1	IND-986-688 IC LMP7701MF	IC LMP7701MF Precision Op-Amp RRIO 5 Pin SOT-23 12V		U4
		Mouser Electroni	926-LMP7701MF/NOPB	Texas Instrume	LMP7701MF/NOPB
63	1	IND-463-661 IC ADP1720A-3.3	IC ADP1720A-3.3 Micropower Voltage Regulator Linear 8 Pin MSOP		U5
		Mouser Electroni	584-ADP1720ARMZ3.3R7	Analog Devices	ADP1720ARMZ-3.3-R7

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
64	1	IND-700-688 IC MC78L12F	IC MC78L12F	12V Voltage Regulator Linear SOT-89	U6
		Mouser Electroni	511-L78L12ACU	ST Microelectr	L78L12ACUTR
65	1	IND-954-925 IC MC79L12F	IC MC79L12F	Negative 12V Voltage Regulator Linear SOT-89	U7
		Mouser Electroni	511-L79L12ACU-TR	ST Microelectr	L79L12ACUTR
66	1	IND-100-661 IC LM8365 2.7V	IC LM8365BALMF27	Reset Generator 2.7V SOT-23 5 Pin	U8
		Mouser Electroni	926-LM8365BALMF27NPB	Texas Instrume	LM8365BALMF27/NOPB
67	1	IND-938-987 IC LT4430	IC LT4430	Opto Driver 6 Pin SOT-23	U9
		Digi-Key Corpora	LT4430ES6#TRMPBCT-ND	Linear Technol	LT4430ES6#TRMPBF
68	1	IND-716-600 OPTO TLP291BG	Opto Isolator 3750V TLP291GB	Transistor Output 4 Pin	U10
		Mouser Electroni	757-TLP291(BL-TPSE	Toko	TLP291(BL-TP,SE
69	1	IND-960-740 RVAR-3MM 2K	Res Var 2.0K Ohm 3mm	Single Turn 3.6mm x 3.4mm	VR1
		Digi-Key Corpora	ST32ETA202CT-ND	Copal Elect In	ST32ETA202
70	1	IND-378-139 CRY-OSC 32.768Khz 12pf	Crystal 32.768Khz 12pf	8.0mmx3.8mm	X1
		Mouser Electroni	732-MC30632.768K-E3R	Epson	MC-306 32.7680K-E3:ROHS