

Job Name: **BB25 BB25E.BMB**

Build Count: **100**

Page: 1 of 5

Build Sides: **Parts Not Stuffed**

Date: 11/24/2014

Time: 14:48

Find-TC	Count	Ref_Des	Part_Number	Sort Code	Description
1	100	JP2	IND-121-795	None	Jumper Post, 6 Pins, 1x6, .025 Square, SMT
2	200	R46, R47	IND-454-786	L7 R5%-0603 0.0	Res, 0 Ohm, Zero Ohm Jumper, 1/16W, 5%, 0603 SMT
3	200	C7, C33	TBD	None	Cap TBD
4	600	MH1, MH2, MH3, MH4, MH5, MH6	MHOLE-4	None	Other MHOLE-4
5	100	R45	TBD	None	Res TBD

Job Name: **BB25 BB25E.BMB**

Build Count: **100**

Page: 2 of 5

Build Sides: **SMT Hand Parts RED = Top**

Date: 11/24/2014

Time: 14:48

Find-TC	Count	Ref_Des	Part_Number	Sort Code	Description
6 J6	100	T3	IND-009-231	E8 XF-EFD DSN-G	Transformer, EFD20 Design G, Battery Boss SMT 5 Winding Common Mode Choke, 190uh
7 E5	100	T2	IND-280-555	N2 IND 1.7mh 3A	Choke, Common Mode, 1.7mh, 3Amp SMT 4 Pin SMT Carrier
8 B5	100	P1	IND-762-521	U6 CON-D 25 Male RA	Connector, 25 Pin, D, Male, Rt Angle, PCB Mount, SMT
9 J5	100	T1	IND-900-968	N8 XF-EFD DSN-F	Transformer, EFD20 Design H. Battery Boss SMT Flyback 25uh Primary 5V Sec with 3

Job Name: **BB25 BB25E.BMB**Build Count: **100**

Page: 3 of 5

Build Slides: **SMT Machine Parts**

Date: 11/24/2014

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10 A2	1100	C6, C14, C15, C16, C17, C19, C20, C27, C29, C30, C44	IND-018-248	L4 CCC-0603 0.1uf 50V	Cap, Ceramic Chip, .1uf, 50V, 10%, X7R, 0603 SMT
11 D5	100	U6	IND-028-711	B5 IC LM78L12F	IC, LM78L12, 12 Volt Linear Regulator, SOT-89 SMT 3 Pin
12 H2	200	R50, R51	IND-059-190	K5 R5%-0603 3.0K	Res, 3.0K Ohm, 1/16W, 5%, 0603 SMT
13 D8	100	U4	IND-066-094	W2 IC LMP2011MF	IC, LMP2011MF, Op-Amp, Precision 5 Pin SMT National Semi., SOT-23
14 F6	500	R18, R23, R24, R32, R36	IND-070-360	N4 R1%-0603 4.99K	Res, 4.99K Ohm, 1/16W, 1%, 0603 SMT
15 C2	300	D1, D2, D10	IND-079-746	W5 D-SHTKY 2 Amp 40V	Diode, Schottky, MBRS240, 2Amp, 40V, SMT, SMB
16 G5	100	R41	IND-097-095	U1 R5%-0603 10M	Res, 10M Ohm, 1/16W, 5%, 0603 SMT
17 C5	100	D5	IND-100-928	M4 D-ZENER 1N5227 3.6V	Diode, Zener, 1N5227, 3.6 Volt, 500mw DL-35, SMT
18 B2	200	C1, C42	IND-133-855	A2 CEL-AL-LZ 100uf 35V	Cap, Electrolytic, 100uf, 35V, SMT Can, Case D SMT Low Impead. .34 Ohm
19 H3	200	R7, R13	IND-161-368	T8 R5%-0603 5.1	Res, 5.1 Ohm, 1/16W, 5%, 0603 SMT
20 C6	100	D13	IND-182-732	U4 D-ZENER 1N5228 3.9V	Diode, Zener, 1N5228, 3.9V, 500mw, DL-35, SMT
21 H7	100	R3	IND-191-506	G6 R5%-1206 2.2K	Res, 2.2K Ohm, 1/8W, 5%, 1206 SMT
22 E2	100	U1	IND-198-344	B5 IC MAX3221	IC, MAX3221, RS-232 Transceiver, 3.3 to 5.5 Volt, TSSOP 16 Pin SMT Texas Instrum
23 E4	100	L1	IND-244-869	L2 IND-DRUM 4.7uh 5A	Inductor, SMT, 4.7UH, .018 Ohm, 5 Amp, SMT Drum
24 G7	100	R42	IND-252-071	A8 R5%-0603 200K	Res, 200K Ohm, 1/16Watt, 5%, 0603 SMT
25 E8	200	Q1, Q3	IND-254-596	D5 Q-NMOS IRLR024N	Transistor, MOSFET, IRLR024N, N Chan, .065 Ohm, 55V, DPAK SMT Logic Level
26 H6	200	R2, R17	IND-256-531	V3 R5%-1206 150	Res, 150 Ohm, 1/8W, 5%, 1206 SMT
27 C4	100	D9	IND-262-508	U3 D-PNUF BAV103	Diode, Small Signal, BAV103, 200V, 50ns, SMT, DL-35
28 G2	400	R15, R38, R40, R49	IND-270-857	N3 R5%-0603 100K	Res, 100K Ohm, 1/16Watt, 5%, 0603 SMT
29 A1	400	C31, C32, C45, C47	IND-282-172	N3 CCC-0603 0.01uf 100V	Cap, Ceramic Chip, .01uf, 100V, 10%, X7R, 0603 SMT
30 E6	100	D8	IND-291-114	V5 LED 0603 Green	Led, SMT, 0603, Green
31 C8	100	D6	IND-335-625	P7 D-ZENER 1N5242 12V	Diode, Zener, 1N5242, 12V, 500mw, DL-35, SMT
32 C3	100	D7	IND-348-711	U2 D-SHTKY 3Amp 40V	Diode, Schottky, 1N5822, 3Amp, 40V, SMT 1N5822, SMC SMT
33 D1	100	D12	IND-392-287	H8 D-ZENER 1N5260 43V	Diode, Zener, 1N5260, 43V, 500mw, DL-35, SMT
34 F8	400	R19, R20, R21, R33	IND-398-542	K1 R1%-0603 56.2K	Res, 56.2K Ohm, 1/16W, 1%, 0603 SMT
35 A8	1000	C2, C3, C12, C13, C34, C35, C36, C37, C38, C39	IND-405-883	E4 CCC-1206 10uf 35V	Cap, Ceramic Chip, 10uf, 35V, 80/-20%, Y5V ,1206 SMT
36 J4	100	SW1	IND-407-842	C3 SW-PUSH 3MM	Switch 3mm, Tactile Push SMT Panasonic EVP
37 E1	100	U9	IND-440-527	L3 IC LT4430	IC, LT4430 Opto Isolator Driver SOT23-6 6 Pin SMT Linear Technology
38 H4	400	R1, R5, R12, R26	IND-447-938	N8 R5%-0603 510K	Res, 510K Ohm, 1/16W, 5%, 0603 SMT

Job Name: **BB25 BB25E.BMB**Build Count: **100**

Page: 4 of 5

Build Slides: **SMT Machine Parts**

Date: 11/24/2014

Time: 14:48

Find-TC	Count	Ref_Des	Part_Number	Sort Code	Description
39 H5	100	R10	IND-452-246	W1 R5%-0603 510	Res, 510 Ohm, 1/16W, 5%, 0603 SMT
40 E7	100	Q8	IND-491-572	E5 Q-NMOS 2N7002	Transistor, 2N7002, MOSFET, N-Chan, 7.5 Ohm, 60V, SOT-23 SMT
41 E3	100	U10	IND-503-400	T1 IC TLP281GB	Opto Isolator, TLP281GB, Photo Transistor, 4 Pin, 1.27mm Pitch SMT Toshiba
42 A4	100	C24	IND-535-431	R7 CCC-0603 1000pf 50V	Cap, Ceramic Chip, 1000pf, 50V, 10%, X7R, 0603 SMT
43 F2	200	Q2, Q7	IND-536-755	J6 Q-PNP 2N3906	Transistor, PNP, 2N3906, 40V 200ma SOT-23 SMT
44 A6	300	C21, C22, C46	IND-538-846	J7 CCC-0603 22pf 50V	Cap, Ceramic Chip, 22pf, 50V, 5%, NPO, 0603 SMT
45 J2	200	RN1, RN2	IND-546-038	L4 RES-NWRK 10K	Resistor Network, Isolated, 10K Ohm, SMT
46 J1	100	R11	IND-548-159	C7 R5%-2512 0.01	Res, 0.01 Ohm, 1W, 5%, 2512 SMT
47 G1	300	R9, R27, R48	IND-567-967	A8 R5%-0603 1.0K	Res, 1.0K Ohm, 1/16W, 5%, 0603 SMT
48 F4	300	R6, R28, R31	IND-576-143	R7 R1%-0603 20.5K	Res, 20.5K Ohm, 1/16W, 1%, 0603 SMT
49 F1	300	Q4, Q5, Q6	IND-578-899	N6 Q-NPN 2N3904	Transistor, NPN, 2N3904, 40V 200ma SOT-23 SMT
50 D7	100	U8	IND-581-282	T2 IC LM8365-2.7V	IC, LM8365BALMF27, Reset Generator, 2.7V, 5 Pin SOT-23 5 Pin SMT
51 G8	100	R22	IND-586-641	V3 R5%-0603 240	Res, 240 Ohm, 1/16W, 5%, 0603 SMT
52 B8	100	D11	IND-622-114	P5 D-PN BAV70	Diode, Dual Small Signal, Common cathode, BAV70 , SMT, SOT23
53 H8	200	R34, R39	IND-636-190	L6 R5%-1206 2.4	Res, 2.4 Ohm, 1/8W, 5%, 1206 SMT
54 A5	100	C8	IND-648-231	D6 CCC-0603 100pf 50V	Cap, Ceramic Chip, 100pf, 50V, 5%, NPO, 0603 SMT
55 B1	100	C23	IND-676-708	C6 CEL-AL-GP 220uf 6.3V	Cap, Electrolytic, 220uf, 6.3V, SMT Can, Case D SMT General Purpose
56 D2	100	U3	IND-706-396	N2 IC 18F26K20SO	IC, PIC18F26K20-I/SO, Micro Processor, 64K Flash, SOIC 28 Pin SMT
57 A7	100	C5	IND-737-642	T7 CCC-0603 330pf 100V	Cap, Ceramic Chip, 330pf, 100V, 10%, X7R, 0603 SMT
58 C1	200	D3, D4	IND-777-877	W7 D-SHTKY 1Amp 200V	Diode, Schottky, DFLS1200-7 1Amp, 200V, SMT, PowerD123
59 G6	100	R25	IND-779-071	E3 R5%-0603 16K	Res, 16K Ohm, 1/16W, 5%, 0603 SMT
60 D6	100	U7	IND-793-861	B7 IC LM79L12F	IC, LM79L12, Neg 12 Volt Linear Regulator, SOT-89 3 Pin SMT
61 G4	400	R4, R14, R16, R35	IND-797-969	T2 R5%-0603 10K	Res, 10K Ohm, 1/16Watt, 5%, 0603 SMT
62 F5	100	R43	IND-813-329	P1 R1%-0603 31.6K	Res, 31.6K Ohm, 1/10W, 1%, 0603 SMT
63 F7	200	R37, R44	IND-837-197	A5 R1%-0603 49.9K	Res, 49.9K Ohm, 1/10W, 1%, 0603 SMT
64 J3	100	VR1	IND-852-840	F7 RVAR-3MM 2K	Var Resistor, 3mm, 2K Ohm 2.3mm Pitch, 3.6mm x 3.4mm SMT
65 D3	100	U5	IND-857-095	W5 IC ADP1720A-3.3	IC, ADP1720ARMZ, Voltage Reg. 3.3V, 50ma, MSOP 8 Pin SMT Analog Devices ADP1720
66 B7	100	D16	IND-871-966	J5 D-PN 1N4148WX	Diode, Small Signal, 1N4148W, SMT, SOD-323 SMT
67 B4	200	C4, C9	IND-873-054	R8 CEL-AL-SP 220uf 6.3V	Cap, Elect Solid Polymer, 220uf, 6.3V, .025 Ohm, Can F SMT
68 F3	100	R29	IND-923-810	M6 R1%-0603 1.00M	Res, 1.00M Ohm, 1/16W, 1%, 0603 SMT

Job Name: **BB25 BB25E.BMB**

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Page: 5 of 5

Build Sides: **SMT Machine Parts**

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Time: 14:48

Find-TC	Count	Ref_Des	Part_Number	Sort Code	Description
69 C7	100	D14	IND-943-756	V6 D-ZENER 1N5233 6.0V	Diode, Zener, 1N5233, 6.0V, 500mw, DL-35, SMT
70 A3	700	C18, C25, C26, C28, C40, C41, C43	IND-958-895	L6 CCC-0603 1.0uf 25V	Cap, Ceramic Chip, 1.0uf, 25V, 10%, X5R, 0603 SMT
71 G3	200	R8, R30	IND-959-344	B7 R5%-0603 100	Res, 100 Ohm, 1/16Watt, 5%, 0603 SMT
72 B3	200	C10, C11	IND-963-715	A8 CEL-AL-LZ 47uf 35V	Cap, Electrolytic, 47uf, 35V, SMT Can, Case E SMT Low Impead. .40 Ohm
73 B6	100	X1	IND-965-714	M5 CRY-OSC 32.768Khz	SMT Crystal, 32.768Khz, Small Watch type, 12pf SMT
74 D4	100	U2	IND-975-427	C3 IC LM3481	IC, LM3481, Switch Reg, PWM, Current Mode, 10 Pin MSOP SMT National Semi. LM3481