

# Component List

Source Data: MBCC\_FMC\_B.PrjPcb

Project: MBCC\_FMC\_B.PrjPcb

Variant: None

Revision: B-03

Report Date: 12/6/2013

12:18:01 PM

Print Date: 7/8/2014

11:03:32 AM



#	Quantity	Designator	Comment	Description	Footprint	MFG#1/Part#	DNP
1	4	JH1, JH2, JH3, JH4	Jumper	Shunt Jumper 100mil		3M: 969102-000-DA	
2	33	C1, C2, C3, C8, C9, C10, C11, C13, C14, C28, C29, C30, C32, C34, C36, C39, C40, C41, C45, C52, C61, C65, C74, C86, C95, C103, C104, C106, C107, C109, C111, C112, C113	100nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C104KAT2A	
3	6	C49, C54, C67, C79, C87, C97	10nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C103KAT2A	
4	3	C53, C78, C96	1uF	Cernamic-Cap X7R 16V	0603C	AVX:0603YC105KAT2A	
5	1	C50	47pF	Cernamic-Cap C0G 50V	0603C	AVX:06035A470FAT2A	
6	1	C100	5nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C562KAT2A	
7	2	C68, C92	68pF	Cernamic-Cap C0G 50V	0603C	AVX:06035A680FAT2A	
8	2	C57, C82	6n8F	Cernamic-Cap X7R 50V	0603C	AVX:06035C682KAT2A	
9	1	LED5	LED_BLUE	LED_BLUE	0603LED-B	LTP: LTST-C190TBKT	
10	1	LED6	LED_GREEN	LED_GREEN	0603LED-G	LTP: LTST-C190GKT	
11	4	LED1, LED2, LED3, LED4	LED_RED	LED_Red	0603LED-R	LTP: LTST-C190CKT	
12	7	R15, R25, R26, R39, R50, R52, R95	0R	Resistor	0603R	Vishay: CRCW06030000Z0EA	
13	1	R98	100K	Resistor	0603R	Vishay: CRCW0603100KJNEA	
14	6	R5, R12, R13, R14, R17, R18	100R	Resistor	0603R	Vishay: CRCW0603100RJNEA	
15	7	R16, R32, R40, R45, R63, R78, R80	10K	Resistor	0603R	Vishay: CRCW060310K0JNEA	
16	3	R47, R59, R70	10K 0.1%	Resistor	0603R	Vishay: TNPW060310K0BEEA	
17	1	R66	110K 0.1%	Resistor	0603R	Vishay: TNPW0603110KBEEA	
18	1	R83	120R 1%	Resistor	0603R	Vishay: CRCW0603120RFKEA	
19	8	R1, R2, R4, R72, R73, R74, R79, R91	1K	Resistor	0603R	Vishay: CRCW06031K00JNEA	
20	2	R94, R97	1K 1%	Resistor	0603R	Vishay: CRCW06031K00FKEA	
21	1	R92	1K5 1%	Resistor	0603R	Vishay: CRCW06031K50FKEA	
22	1	R81	220R 1%	Resistor	0603R	Vishay: CRCW0603220RFKEA	
23	1	R3	240R	Resistor	0603R	Vishay: CRCW0603240RJNEA	
24	3	R41, R53, R61	2R 1%	Resistor	0603R	Vishay: CRCW06032R00FKEA	
25	3	R36, R37, R71	330R	Resistor	0603R	Vishay: CRCW0603330RJNEA	
26	1	R68	35K7 0.1%	Resistor	0603R	Vishay: TNPW060335K7BEE	
27	1	R93	3K	Resistor	0603R	Vishay: CRCW06033K00JNEA	
28	2	R19, R20	3K3	Resistor	0603R	Vishay: CRCW06033K30JNEA	
29	1	R46	3K57 1%	Resistor	0603R	Vishay: CRCW06033K57FKEA	
30	2	R75, R76	3K92 1%	Resistor	0603R	Vishay: CRCW06033K92FKEA	
31	1	R82	430R 1%	Resistor	0603R	Vishay: CRCW0603430RFKEA	
32	2	R56, R65	44K2 0.1%	Resistor	0603R	Vishay: TNPW060344K2BEEA	
33	5	R27, R28, R30, R31, R35	4K7	Resistor	0603R	Vishay: CRCW06034K70JNEA	
34	1	R57	5K62 1%	Resistor	0603R	Vishay: CRCW06035K62FKEA	
35	1	R77	680R 1%	Resistor	0603R	Vishay: CRCW0603680RFKEA	
36	1	R44	73K2 0.1%	Resistor	0603R	Vishay: TNPW060373K2BEEN	
37	1	R69	7K87 1%	Resistor	0603R	Vishay: CRCW06037K87FKEA	
38	1	R99	DNP	Resistor	0603R	Vishay: CRCW0603xxxxFKEA	
39	8	C44, C46, C51, C64, C71, C73, C85, C93	22uF 25V	Cernamic-Cap X7R 25V	1210C	KEMET: C1210C226M3RACTU	
40	9	B1, B2, B3, B4, B5	Bumper	Bumper	Bumper	3M: SJ61A6	
41	2	J4, J6	DIL-6	DIL-6	DIL-6	TE: 5-146257-3	
42	2	JX1, JX2	BERGSTAK-100-PLUG	FCI BERGSTAK 100p 0.8mm Pitch Plug	FCI_61083-101400LF	FCI: 61083-101400LF	
43	1	CON2	FMC_CC_LPC_10	FMC Carrier Card Low Pin Count Connector (10mm stacking height)	FMC_LPC_CC_SAMTEC-ASP-134603-01	Samtec: 134603-01	
44	1	L6	3u5H 8A	Power Inductor 12x12	L_12X12	Bourns: SRR1280-3R5Y	
45	1	L4	5u6H 6.7A	Power Inductor 12x12	L_12X12	Bourns: SRR1260-5R6Y	
46	1	L3	8u2H 11A	Power Inductor 13x13	L_13X13	Bourns: SRP1270-8R2M	
47	1	CON4	39-30-1060	Xilinx 6P Power 12V 5A	MOLEX_6P_R	Molex: 39-30-1060	
48	5	JA, JB, JY, JZ, PS	PMOD_2X6_F	PMOD 2X6 2.54mm Female	PMOD_2X6_SAMTEC-SSW-106-02-F-D-RA	SAMTEC: SSW-106-02-T-D-RA	
49	1	U6	SN74LVC1G07	Single Buffer /w Open Drain	SC70-5	TI: SN74LVC1G07DCKR	

50	1	U3	TS5A3157	Analog switch SPDT	SC70-6-DCK	TI: TS5A3157DCKR	
51	5	TP1, TP2, TP3, TP4, TP5	SIP-1	1P 2.54mm Header	SIP-1	TE: 5-146280-1	
52	1	J1	SIP-3	3P 2.54mm Header	SIP-3	TE: 5-146280-3	
53	1	CON5	SIP-3	3P 2.54mm Header Fiction Lock	SIP-3-FL	Molex: 22272031	
54	1	U4	11AA02E48	EEPROM 2K UNI/O SOT-23	SOT-23	Microchip: 11AA02E48T-I/TT	
55	1	U9	TL431A	Precision Programmable Reference	SOT-23	TI: TL431AIDBZ	
56	2	D1, D2	BAT54LT1G	Schottky Diodes Vf=0.35V@10mA Vr=30V	SOT-23/TO-236	OnSemi: BAT54LT1G	
57	8	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	BSS138	MOSFET-N	SOT-23/TO-236-MOSFET	OnSemi: BSS138LT1G	
58	1	U8	AP331AWG	Single Differential Comparator	SOT-23-5	DIODES: AP331AWG-7	
59	1	SW3	Switch Single Pole	Switch - Single Pole 6A@28VDC	SW-C&K1101	C&K: 1101-M2-S3-C-Q-E-2	
60	2	BTN1, BTN2	BTN	Switch Tactile 6mm Black	SW-TACTILE-4	TE: 1825910-6 (FSM4JH)	
61	3	SW1, SW2, SW4	BTN_RED	Switch Tactile 6mm Red	SW-TACTILE-4	TE: 1825910-7 (FSM4JAH)	
62	1	U2	SN74LVC125A	4 Buffer Gate /w 3-State O/P	TSSOP-14	TI: SN74LVC125APWRG3	
63	1	U5	TCA9517A	I2C Level Translator	VSOP-8	TI: TCA9517ADGKR	
64	3	REG1, REG3, REG5	MAX15066	DC-DC 4A /w Internal Power Switch	WLP-16	MAXIM: MAX15066EWE+	
65	1	J2	XILINX JTAG 2mm	Xilinx JTAG 2mm SMT	XILINX_JTAG_2MM_SMT	Molex: 87832-1420	
66	10	C12, C55, C56, C80, C81, C98, C99, C101, C102, C105	DNP	Cernamic-Cap X7R 50V	0603C	AVX:06035CxxxKAT2A	DNP
67	4	R21, R22, R23, R24	10K	Resistor	0603R	Vishay: CRCW060310K0JNEA	DNP
68	1	R6	680R	Resistor	0603R	Vishay: CRCW0603680RJNEA	DNP
69	17	R7, R8, R9, R10, R11, R29, R33, R34, R42, R43, R48, R49, R51, R55, R58, R64, R96	DNP	Resistor	0603R	Vishay: CRCW0603xxxxJNEA	DNP
70	1	R38	0R DNP	Resistor	0805R	Vishay: CRCW08050000Z0EA	DNP
71	9	C6, C7, C18, C19, C20, C33, C35, C37, C38	100uF 6V3	Cernamic-Cap Y5V 6V3	1210C	muRata: GRM32EF50J107ZE20K	DNP
72	14	C4, C5, C15, C16, C17, C31, C42, C43, C62, C63, C72, C83, C84, C94	22uF 25V	Cernamic-Cap X7R 25V	1210C	KEMET: C1210C226M3RACTU	DNP
73	4	FM1, FM2, FM3, FM4	DNP	Mounting Hole	MTG_2.7-1-NPTH		DNP
74	4	ZM1, ZM2, ZM3, ZM4	DNP	Mounting Hole	MTG_3.2mm-1		DNP
75	4	M1, M2, M3, M4	DNP	Mounting Hole	MTG_3.2mm-9		DNP
76	3	TP6, TP8, TP11	DNP	1P 2.54mm Header	SIP-1	TE: 5-146280-1	DNP
77	3	J3, J5, J7	DNP	2P 2.54mm Header	SIP-2	TE: 5-146280-2	DNP
78	1	U1	DS28E02P+	1 Wire EEPROM	TSOC-6	Maxim: DS28E02P	DNP
<b>Approved by</b>							