

Component List

Source Data: MBCC-IO-RevD.PrjPcb

Project: MBCC-IO-RevD.PrjPcb

Variant: None

Revision: D

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#	Quantity	Designator	Comment	Description	Footprint	MFG#1/Part#	DNP
1	3	JH1, JH2, JH3	Jumper	Shunt Jumper 100mil		3M: 969102-0000-DA	
2	35	C1, C6, C7, C8, C9, C10, C11, C12, C16, C17, C18, C19, C26, C27, C28, C29, C30, C31, C32, C34, C40, C43, C48, C54, C63, C68, C77, C79, C84, C85, C86, C87, C88, C90, C93	100nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C104KAT2A	
3	7	C50, C56, C59, C64, C71, C74, C81	10nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C103KAT2A	
4	3	C13, C14, C15	1nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C102KAT2A	
5	8	C37, C38, C39, C41, C42, C55, C70, C80	1uF	Cernamic-Cap X7R 16V	0603C	AVX:0603YC105KAT2A	
6	2	C51, C65	68pF	Cernamic-Cap C0G 50V	0603C	AVX:06035A680FAT2A	
7	2	L1, L2	Z330 1.2A	Ferrite Bead	0603L	muRata: BLM18PG331SN1	
8	1	LED9	LED_BLUE	LED_BLUE	0603LED-B	LTP: LTST-C190TBKT	
9	1	LED10	LED_GREEN	LED_GREEN	0603LED-G	LTP: LTST-C190GKT	
10	8	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	LED_RED	LED_Red	0603LED-R	LTP: LTST-C190CKT	
11	4	R25, R26, R51, R76	0R	Resistor	0603R	Vishay: CRCW06030000Z0EA	
12	17	R6, R7, R8, R27, R28, R29, R30, R31, R32, R33, R34, R37, R38, R39, R40, R45, R46	100R	Resistor	0603R	Vishay: CRCW0603100RJNEA	
13	2	R49, R74	10K	Resistor	0603R	Vishay: CRCW060310K0JNEA	
14	2	R65, R75	10K 0.1%	Resistor	0603R	Vishay: TNPW060310K0BEEA	
15	2	R62, R71	110K 0.1%	Resistor	0603R	Vishay: TNPW0603110KBEEA	
16	15	R5, R9, R10, R14, R15, R19, R20, R23, R24, R41, R42, R43, R44, R79, R81	1K	Resistor	0603R	Vishay: CRCW06031K00JNEA	
17	1	R11	240R	Resistor	0603R	Vishay: CRCW0603240RJNEA	
18	2	R58, R66	2R 1%	Resistor	0603R	Vishay: CRCW06032R00FKEA	
19	1	R61	330R	Resistor	0603R	Vishay: CRCW0603330RJNEA	
20	2	R63, R72	35K7 0.1%	Resistor	0603R	Vishay: TNPW060335K7BEEA	
21	4	R35, R36, R47, R48	3K3	Resistor	0603R	Vishay: CRCW06033K30JNEA	
22	4	R64, R73, R80, R82	3K92 1%	Resistor	0603R	Vishay: CRCW06033K92FKEA	
23	2	R60, R70	44K2 0.1%	Resistor	0603R	Vishay: TNPW060344K2BEEA	
24	1	R52	4K7	Resistor	0603R	Vishay: CRCW06034K70JNEA	
25	1	R18	680R	Resistor	0603R	Vishay: CRCW0603680RJNEA	
26	5	B1, B2, B3, B4, B5	Bumper	Bumper, 7.9mm diameter, 2.2mm high	Bumper	3M: SJ5302	
27	2	CON3, CON4	DIL-6	DIL-6	DIL-6	TE: 5-146257-3	
28	1	SW1	DIP-SW-4	DIP SW 4P 2.54mm Pitch	DIP_SW-4-2.54-SMD	TE: 1825058-7 (ADE04S04)	
29	2	JX1, JX2	BERGSTAK-100-PLUG	FCI BERGSTAK 100p 0.8mm Pitch Plug	FCI_61083-101400LF	FCI: 61083-101400LF	
30	2	L3, L4	4u7H 5.6A	Power Inductor 12x12mm	L_12X12	Bourns: SRR1240-4R7M	
31	1	L5	33uH 1.1A	Power Inductor 6.8x6.8mm	L_6.8x6.8	Bourns: SRR6038-330Y	
32	1	CON2	MONO JACK	DC JACK	MONO-DC	CUI: PJ-002BH	
33	1	X1	100MHz	OSC 1.8-3.3V SMD 100MHz 100ppm	OSC_2025	Discera: DSC1001DE1-100.0000T	
34	12	JA, JB, JC, JD, JE, JF, JG, JH, JK, JY, JZ, PS	PMOD_2X6_F	PMOD 2X6 2.54mm Female	PMOD_2X6_SAMTEC-SSW-106-02-F-D-RA	SAMTEC: SSW-106-02-F-D-RA	
35	1	REG1	MAX8891-18	High PSRR 150mA LDO	SC70-5	MAXIM: MAX8891EXK18+T	
36	5	TP1, TP2, TP3, TP4, TP5	SIP-1	1P 2.54mm Header	SIP-1	TE: 5-146280-1	

37	1	J1	SIP-3	3P 2.54mm Header	SIP-3	TE: 5-146280-3	
38	1	J4	SIP-3	3P 2.54mm Header Fiction Lock	SIP-3-FL	Molex: 22272031	
39	1	D1	BAT54LT1G	Schottky Diodes Vf=0.35V@10mA Vr=30V	SOT-23/TO-236	OnSemi: BAT54LT1G	
40	12	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12	BSS138	MOSFET-N	SOT-23/TO-236-MOSFET	OnSemi: BSS138LT1G	
41	1	REG2	MAX6037A-12	Fixed 1.25V Reference	SOT-23-5	MAXIM: MAX6037AAUK12+T	
42	1	SW5	Switch Single Pole	Switch - Single Pole 6A@28VDC	SW-C&K1101	C&K: 1101-M2-S3-C-Q-E-2	
43	4	BTN1, BTN2, BTN3, BTN4	BTN	Switch Tactile 6mm Black	SW-TACTILE-4	TE: 1825910-6 (FSM4JH)	
44	1	SW3	INIT#	Switch Tactile 6mm Red	SW-TACTILE-4	TE: 1825910-7 (FSM4JAH)	
45	1	SW2	POR#	Switch Tactile 6mm Red	SW-TACTILE-4	TE: 1825910-7 (FSM4JAH)	
46	1	SW4	SRST#	Switch Tactile 6mm Red	SW-TACTILE-4	TE: 1825910-7 (FSM4JAH)	
47	1	REG5	MAX17501EATB+	DC-DC 60V 500mA 600KHz	TDFN-10	Maxim: MAX17501EATB+	
48	1	U1	DS28E02P+	1 Wire EEPROM	TSOC-6	Maxim: DS28E02P+	
49	2	REG3, REG4	MAX15066	DC-DC 4A /w Internal Power Switch	WLP-16	MAXIM: MAX15066EWE+	
50	1	J2	XILINX JTAG 2mm	Xilinx JTAG 2mm SMT	XILINX_JTAG_2MM_SMT	Molex: 87832-1420	
51	1	CON1	XILINX_XDAC	XILINX_XADC	XILINX-XADC	Samtec: TST-110-01-G-D	
52	9	C44, C49, C57, C58, C72, C73, C82, C83, C89	DNP	Cernamic-Cap X7R 50V	0603C	AVX:06035CxxxKAT2A	DNP
53	14	R1, R2, R3, R4, R50, R53, R54, R55, R56, R59, R68, R69, R77, R78	DNP	Resistor	0603R	Vishay: CRCW0603xxxxJNEA	DNP
54	6	C2, C3, C20, C21, C22, C33	100uF 16V	Cernamic-Cap X5R 16V	1210C	TYC: EMK325ABJ107MM-T	DNP
55	5	C4, C5, C23, C24, C25	100uF 6V3	Cernamic-Cap Y5V 6V3	1210C	muRata: GRM32EF50J107ZE20K	DNP
56	15	C35, C36, C45, C46, C47, C52, C53, C60, C61, C62, C66, C67, C75, C76, C78	22uF	Cernamic-Cap X7R 16V	1210C	AVX:1210YC226MAT2A	DNP
57	4	ZM1, ZM2, ZM3, ZM4	DNP	Mounting Hole	MTG_3.2mm-1		DNP
58	4	M1, M2, M3, M4	DNP	Mounting Hole	MTG_3.2mm-9		DNP
59	5	TP6, TP7, TP8, TP9, TP10	DNP	1P 2.54mm Header	SIP-1	TE: 5-146280-1	DNP
60	3	J3, J5, J6	DNP	2P 2.54mm Header	SIP-2	TE: 5-146280-2	DNP

Approved by

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