

Component List

Source Data: MBCC-BKO-RevA.PrjPcb

Project: MBCC-BKO-RevA.PrjPcb

Variant: None

Revision: A



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#	Quantity	Designator	Comment	Description	Footprint	MFG#/Part#	DNP
1	7	C1, C2, C3, C4, C9, C11, C14	22uF 10V	Cernamic-Cap X5R 10V	0805C	AVX: 0805ZD226MAT2A	
2	2	C10, C13	DNP	Cernamic-Cap X7R 50V	0603C	AVX:06035CxxxKAT2A	DNP
3	8	C12, C15, C16, C17, C18, C20, C22, C28	100nF	Cernamic-Cap X7R 50V	0603C	AVX:06035C104KAT2A	
4	4	C5, C6, C7, C8	100nF	Cernamic-Cap X7R 25V	0402C	AVX:04023C104KAT2A	
5	2	CON1, CON2	FCI 2x30 Female Header	DIL-60	DIL-60	68683-315	
6	1	CON4	MicroUSB	USB Micro-B SMD	TE-1981584	TE: 1981584-1	
7	2	CON5, J1	DNP	2P 2.54mm Header	SIP-2	TE: 5-146280-2	DNP
8	1	D1	MBR230LSFT1G	Schottky Diodes	SOD-123	OnSemi: MBR230LSFT1G	
9	2	D2, D3	BAT54LT1G	Schottky Diodes Vf=0.35V@10mA Vr=30V	SOT-23/TO-236	OnSemi: BAT54LT1G	
10	1	JH1	Jumper	Shunt Jumper 100mil		3M: 969102-0000-DA	
11	1	JP2	DIL-6	DIL-6	DIL-6	TE: 5-146257-3	
12	2	JX1, JX2	BERGSTAK-100-PLUG	FCI BERGSTAK 100p 0.8mm Pitch Plug	FCI_61083-101400LF	FCI: 61083-101400LF	
13	1	L1	2.2uH 2.0A	Power Inductor 12x12mm	L_5X5	Bourns: SRN5020-2R2Y	
14	1	O1	OMNIP_14X31	Omnipotent Board,14x31	OMNIP_14X31		DNP
15	2	Q1, Q2	BSS138	MOSFET-N	SOT-23/TO-236-MOSFET	OnSemi: BSS138LT1G	
16	1	R1	45K3 0.1%	Resistor	0603R	Vishay: TNPW060345K3BEEA	
17	1	R10	1K5 1%	Resistor	0603R	Vishay: CRCW06031K50FKEA	
18	1	R11	680R 1%	Resistor	0603R	Vishay: CRCW0603680RFKEA	
19	1	R12	3K	Resistor	0603R	Vishay: CRCW06033K00JNEA	
20	1	R13	220R 1%	Resistor	0603R	Vishay: CRCW0603220RFKEA	
21	1	R14	430R 1%	Resistor	0603R	Vishay: CRCW0603430RFKEA	
22	1	R15	120R 1%	Resistor	0603R	Vishay: CRCW0603120RFKEA	
23	2	R16, R21	1K 1%	Resistor	0603R	Vishay: CRCW06031K00FKEA	
24	1	R17	0R	Resistor	0603R	Vishay: CRCW06030000Z0EA	
25	1	R18	0R	Resistor	0603R	Vishay: CRCW06030000Z0EA	DNP
26	1	R2	10K 0.1%	Resistor	0603R	Vishay: TNPW060310K0BEEA	
27	1	R23	100K	Resistor	0603R	Vishay: CRCW0603100KJNEA	
28	1	R24	3K74 1%	Resistor	0603R	Vishay: CRCW06033K74FKEA	
29	1	R3	107K 0.1%	Resistor	0603R	Vishay: TNPW0603107KBEEA	
30	1	R4	36K 0.1%	Resistor	0603R	Vishay: TNPW060336K1BEE	
31	3	R5, R6, R9	1K	Resistor	0603R	Vishay: CRCW06031K00JNEA	
32	2	R7, R8	3K92 1%	Resistor	0603R	Vishay: CRCW06033K92FKEA	
33	1	REG1	LMR10510XMF	SIMPLE SWITCHER 5.5Vin, 1A Step-Down Voltage Regulator in SOT-23	SOT-23-5	TI: LMR10510XMF/NOPB	
34	1	SW1	Switch Single Pole	Switch - Single Pole 6A@28VDC	SW-C&K1101	C&K: 1101-M2-S3-C-Q-E-2	
35	15	TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20	Test Point	Test Point	TP_TH-1		DNP
36	1	U2	AP331AWG	Single Differential Comparator	SOT-23-5	DIODES: AP331AWG-7	
37	1	U3	TL431A	Precision Programmable Reference	SOT-23	TI: TL431AIDBZ	
38	4	ZM1, ZM2, ZM3, ZM4	DNP	Mounting Hole	MTG_3.2mm-1		DNP