

Printed Circuit Assembly Bill of Materials

for

Power Supply PCA55020 REV10.04

ITEM	QTY	Sch. Part ID	Designators	Description	Footprint	Manufact Part #	Manufacturer	Notes
1	8	1000	C2 C10 C13 C21 C24 C33 C43 C56	Capacitor	Y/4700	01000	Vicor	
2	8	1501	C4 C11 C16 C22 C26 C34 C45 C60	Capacitor	Y/.01	01501	Vicor	
3	4	100uF/63V	C7 C19 C30 C51	Capacitor	C+400D200H34	63V100-HEI	Nichicon	
4	12	10nF	C29 C35 C37 C40 C41 C47 C48 C49 C50 C53 C55 C57	Capacitor	SM/C/0805	10nF X7R 50V 10%	Approved Vendors	
5	4	2.2uF/10V	C9 C18 C32 C54	Capacitor	G+150D100H31	2.2uF 10V 10% tant.	Approved Vendors	
6	5	2.2uF/63V	C1 C5 C15 C28 C46	Capacitor	C+225D100H31	KME100VB2R2M5X11LL	United Chemi-Con	
7	4	27pF	C38 C39 C59 C62	Capacitor	SM/C/0805	27 pF COG 50V 10%	Approved Vendors	
8	8	39pF	C63 C64 C65 C66 C67 C68 C69 C70	Capacitor	SM/C/0805	39 pF COG 50V 10%	Approved Vendors	
9	1	4.7uF/20V	C42	Capacitor	SM/CT/3528	4.7uF tant 20V 10%	Approved Vendors	
10	4	NNP	C8 C20 C31 C52	Capacitor	C+400D200H34			
11	2	NNP	C71 C72	Capacitor	SM/C/0805			
12	4	2134	CM1 CM2 CM3 CM4	Capacitor	CM02133	02134	Vicor	
13	4	9799	CT1 CT2 CT3 CT4	Capacitor	TANT	09799	Vicor	
14	4	9800	CT5 CT6 CT7 CT8	Capacitor	TANT	09800	Vicor	
15	1	NNP	D5	TVS	1N6284A			
16	3	551-3508	D1 D2 D3	LED	551-3508	551-3508	Dialight	
17	1	MMB4148L	D4	Diode	SOT23/123	MMB4148L	Motorola	
18	1	12A/250V	F2	Fuse	3ABFUSE	325012	Littelfuse	
19	1	15A/250V	F3	Fuse	3ABFUSE	325015	Littelfuse	
20	1	2.5A/250V	F5	Fuse	3ABFUSE	32502.5	Littlefuse	
21	1	20A/250V	F4	Fuse	3ABFUSE	325020	Littelfuse	
22	1	3/10A/250V	F1	Fuse	3ABFUSE	325.3	Littelfuse	
23	2	Ext. Insert	J2-I4 J2-I5	40A PCB ext. insert	N/A	73550120003	HARTING	
24	4	Insert	J2-I1 J2-I2 J2-I3 J2-I6	40A PCB insert	N/A	09030006110	Harting	
25	2	09031246901	J2 J2A	24+8 Type M DIN 24+8 Type M DIN 24+8 Type M DIN	CNVME24RF8RA CNVME24RF8RA CNVME24RF8RA	09031246901 148414-5 10 8483 024 003 025	Harting Amp Elco	
26	1	8 HEADER	JP1	8 Pin Header	C100TB100V8	NSH-08SA-S2-TG	Robinson-Nugent	
27	4	5298	L1 L2 L3 L4	Inductor	INDUCT	05298	Vicor	
28	1	Bullet	J2A-I1	40A straight solder insert crimp insert crimp insert crimp insert	N/A N/A N/A N/A	09030006103 0903 000 6115 60 8489 040 005 148430-1	Harting Harting Elco Amp	
29	3	Insert	J2A-I2 J2A-I3 J2A-I4	40A solder ext. insert crimp ext. insert	N/A N/A	09030006133 0903 000 6125	Harting Harting	
30	6	MMBT4403LT1	Q1 Q2 Q3 Q4 Q5 Q6	PNP Transistor	SOT23/123	MMBT4403LT1	Motorola	
31	4	0R	R57 R58 R61 R62	resistor	SM/R/0805	0R 5%	Approved Vendors	

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32	1	1.82k-1%	R39	resistor	SM/R/0805	1.82k 1%	Approved Vendors	
33	3	100R	R32 R35 R36	resistor	SM/R/0805	100R 5%	Approved Vendors	
34	16	10k	R4 R5 R8 R10 R12 R14 R44 R46 R47 R48 R49 R50 R51 R52 R53 R54	resistor	SM/R/0805	10k 5%	Approved Vendors	
35	1	10k-1%	R25	resistor	SM/R/0805	10k 1%	Approved Vendors	
36	1	12.1k-1%	R28	resistor	SM/R/0805	12.1k 1%	Approved Vendors	
37	6	180R	R3 R6 R7 R11 R15 R16	resistor	SM/R/0805	180R 5%	Approved Vendors	
38	4	1k	R30 R41 R42 R43	resistor	SM/R/0805	1k 5%	Approved Vendors	
39	1	2.7k	R31	resistor	SM/R/0805	2.7k 5%	Approved Vendors	
40	2	200R	R22 R40	resistor	AX300X100H31	200R 1/4W 5%	Approved Vendors	
41	1	210k-1%	R64	resistor	SM/R/0805	210k 1%	Approved Vendors	
42	1	22k	R59	resistor	SM/R/0805	22k 5%	Approved Vendors	
	1	NNP	R26	resistor	SM/R/0805			
43	1	267k-1%	R24	resistor	SM/R/0805	267k 1%	Approved Vendors	
44	3	3.32k-1%	R33 R34 R37	resistor	SM/R/0805	3.32k 1%	Approved Vendors	
45	6	5.6k	R1 R2 R9 R13 R17 R18	resistor	SM/R/0805	5.6 k 5%	Approved Vendors	
46	1	66.5k- 1%	R63	resistor	SM/R/0805	66.5k 1%	Approved Vendors	
47	1	750R	R20	resistor	SM/R/0805	750R 5%	Approved Vendors	
48	5	82k	R19 R21 R23 R27 R45	resistor	SM/R/0805	82k 5%	Approved Vendors	
49	2	887k-1%	R65 R66	resistor	SM/R/0805	887k 1%	Approved Vendors	
50	1	9.09k-1%	R38	resistor	SM/R/0805	9.09k 1%	Approved Vendors	
51	1	9.1k	R29	resistor	SM/R/0805	9.1k 5%	Approved Vendors	
52	3	NNP	R55 R56 R60	resistor	SM/R/0805		Approved Vendors	
53	2	ADC08038CIWM	U11 U12	A/D Converter	SOG.050/20B	ADC08038CIWM	National	
54	1	BXA3-24S05	U1	5V Converter	BXA3	BXA3-24S05	Artesyn	
55	1	COM20020ILJP	U20	LAN Controller	PLCC28	COM20020ILJP	SMSC	
56	1	DS1233DZ-10	U17	ECONO RESET	SOT223/1234	DS1233DZ-10	Dallas	
57	3	Heatsink	U4 U7 U13	Heatsink	N/A	02111	Vicor	
58	5	LM35DZ	U2 U3 U6 U8 U19	Temperature Sensor	TO92/100	LM35DZ	National	
59	1	LM4040CIM3-2.5	U9	Zener Diode	SOT23/123	LM4040CIM3-2.5	National	
60	1	LMC6482AIM	U10	Operational Amplifier	SOG.050/8B	LMC6482AIM	National	
61	1	M24C32-MN6T(8)	U15	EEPROM	SOG.050/8B	M24C32-MN6T(8)	SGS-Thompson	
62	1	MAX3088CSA	U22	RS-485 Transceivers	SOG.050/8B	MAX3088CSA	Maxim	
63	1	PXAG49KBA	U18	Microcontroller	PLCC44/S925	PXAG49KBA	Philips	
64	1	Socket	U18	PLCC44 socket	PLCC44	PCS-044-SMU-12	T&B	
65	2	TLP598G	U5 U14	Photo Relay	TLP598	TLP598G	Toshiba	
66	3	Thermal Pad	U4 U7 U13	Thermal Pad	N/A	01777	Vicor	
67	1	VI-210-EV	U7	5 volt 150W converter	VI-2XX	VI-210-EV	VICOR	
68	1	VI-211-EU	U13	12 volt 150W converter	VI-2XX	VI-211-EU	VICOR	
69	1	VI-21Y-EU	U4	3.3 volt 40A converter	VI-2XX	VI-21Y-EU	VICOR	
70	1	VI-J11-EZ	U21	12 volt 25W converter	VI-JXX	VI-J11-EZ	VICOR	
71	1	XC9536	U16	PLD	Q.80M 44	XC9536-15VQ44I(44)	Xilinx	
72	2	ATS200SM	X1 X2	20MHz Crystal	ATSM	ATS200SM	CTS	
73	2	N/A	N/A	1/4" spacer	N/A	608-170	Spaenaur	
74	2	N/A	N/A	#10AWG White 1.5" jumpers	N/A		Approved Vendors	
75	4	N/A	N/A	#12AWG White 1.5" jumpers	N/A		Approved Vendors	

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76	2	N/A	N/A	#2-56 small pat hex nut zinc	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
				#2-56 small pat hex nut ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
77	2	N/A	N/A	#2-56 x 1 ph phil zinc #2-56 x 1 ph phil ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
				#2-56 x 1 ph phil ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
78	18	N/A	N/A	#6/32x1/2 in ph ph zinc	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
				#6/32x1/2 in ph ph ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
79	22	N/A	N/A	#6/32x1/4 in ph ph zinc	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
				#6/32x1/4 in ph ph ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
80	4	N/A	N/A	#6/32x3/8 in ph ph zinc	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
				#6/32x3/8 in ph ph ss	N/A		Approved Vendors	Shall Meet Industrial Fastner Institute Standards
81	16	N/A	N/A	Lockwash Terminal	N/A	7315	Keystone	
82	22	N/A	N/A	Standoff	N/A	2210	Keystone	
83	1	N/A	N/A	Serial Number Label	N/A		Approved Vendors	Cell-Loc PCAMIP
84	1	N/A	N/A	Printed Wiring Board	N/A	PWB55020REV10	Approved Vendors	Cell-Loc PWBMIIP