

PSU-10a - 12V Power Module Full Kit

Item	Description	Qty	Designator	Package
PCB				
1	PSU-10 - Power Module PCB V0.4	1		-
KITS				
2	PSU-10 - Enclosure Kit V0.0	1		-
3	PSU-10a - 12V Power Module Component Kit V0.4	1		-

Bill of Materials for PSU-10a - 12V Power Module Full Kit V0.4
PSU-10a - 12V Power Module Component Kit

Item	Description	Qty	Designator	Package
CAPACITOR				
1	1nF 5% C0G Ceramic,	1	C7	RAD-0.2N
2	10nF 5% Ceramic, Medium K	1	C12	RAD-0.2N
3	100nF Ceramic	3	C11, C14, C6	RAD-0.2N
4	1uF 50V Electrolytic	1	C15	RB-D5.0-P2.0
5	10uF 35V Electrolytic	1	C16	RB-D5.0-P2.0
6	100uF 25V Electrolytic	2	C1, C4	RB-D8-P3.5
7	220uF 25V Electrolytic	1	C13	RB-PD10.0-P5.0
8	4u7 Ceramic X7R	3	C2, C3, C5	0805
CONNECTOR				

PSU-10a - 12V Power Module Component Kit

Item	Description	Qty	Designator	Package
	CONNECTOR - continued			
9	CRIMP - KK396	12	J10^4, J11^4, J12^4	-
			NB: Not required in enclosure	
10	FASTON - 6.3mm x 0.8mm PCB TAB	11	X2, X1, J10^3, J11^3, J12^3	-
			NB: Not required in enclosure	
11	KK396 - 4-way Crimp Housing	3	J10, J11, J12	3.96MM
			NB: Not required in enclosure	
12	FASTON - 4.8mm x 0.8mm PCB TAB	1	X3	-
			NB: Not required in enclosure	

Bill of Materials for PSU-10a - 12V Power Module Full Kit V0.4
PSU-10a - 12V Power Module Component Kit

Item	Description	Qty	Designator	Package
	CONNECTOR - continued			
13	FASTON - 4.8 x 0.8 Female - Red	1	X3	-
			NB: Not required in enclosure	
14	KK396 - 4-way Straight - Locking Header	3	J10, J11, J12	-
			NB: Not required in enclosure	
	DIODE			
15	1N4004 200V 1A	3	D11, D13, D14	DIODE-0.4
	HARDWARE			
16	M3 x 10mm Bolt PH	2	HW3, HW6	-
17	M3 Nut	2	HW2, HW5	-
18	HEATSINK - TO-220 Type 6021	2	HW1, HW4	-
	LINEAR			
19	LT1085 - 3A +Ve Adjustable Regulator	1	U11	TO-220
20	LM337 - 1.5A Adjustable Negative Voltage Regulator	1	U12	TO-220
21	PTN78000AAH -15VDC @ 1.5A DC/DC Converter	1	U1	-
	INDUCTOR			
22	Inductor 12uH 5.7A	1	L1	RB-D9.0-P5.0
23	Ferrite Bead - 0.45uH 7A	2	L11, L12	AXIAL-0.3
	OPTO-ELECTRONIC			
24	3mm HE-Green LED	2	D12, D15	-
	RESISTOR			
25	100R 1% 0.5W Metal Film	2	R1, R2	AXIAL-0.4
26	120R 1% 0.5W Metal Film	1	R14	AXIAL-0.4
27	127R 1% 0.5W Metal Film	1	R12	AXIAL-0.4
28	1K0 1% 0.5W Metal Film	2	R11, R13	AXIAL-0.4
29	2K2 1% 0.5W Metal Film	2	R15, R16	AXIAL-0.4

PSU-10 - Enclosure Kit

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	FASTON - 6.35 x 0.8 Female - Fully Insulated - Red	11		-
2	MIC - 4-pin Male Plug [Panel Front Mount]	3	J10, J11, J12	-
3	2.5mm DC Panel Socket + Flat Washer	1	J1	-
4	Binding Post - 0V Reference	1		-
5	Binding Post - Chassis	1		-
	ENCLOSURE			
6	Hammond 1455K 120mm x 40mm Extrusion	1		-
	HARDWARE			
7	Equipment Wire 24/0.2mm Yellow [@ 1cm]	6		-
8	SLEEVING - 4.8mm 2:1 Black Heatshrink [@ 1cm]	6		-
9	Equipment Wire 24/0.2mm Red [@ 1cm]	18		-
10	Equipment Wire 24/0.2mm Blue [@ 1cm]	18		-
11	Equipment Wire 24/0.2mm Black [@ 1cm]	42		-
12	Equipment Wire 7/0.2 Black [@ 1cm]	6		-
			NB: LEDs	
13	Equipment Wire 7/0.2 Red [@ 1cm]	6		-
			NB: LEDs	
	OPTO-ELECTRONIC			
14	3mm Clear Lens Mount	2	D12, D15	-
	PANEL			
15	PSU-10 Out Panel D	1		-
16	PSU-10 In Panel D	1		-
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