

GDIY51PSU-V2 Rev A.1 BOM

Resistors					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
1	R1	150R	.5W 1% MF	Vishay/BC	MRS25000C1500FRP00
4	R3	243R	.5W 1% MF	Vishay/BC	MRS25000C2430FRP00
	R5	243R	.5W 1% MF		
	R13	243R	.5W 1% MF		
	R15	243R	.5W 1% MF		
2	R10	1K5	.5W 1% MF	Vishay/Dale	CCF551K50FKE36
	R11	1K5	.5W 1% MF		
2	R12	2.43K	.5W 1% MF	Vishay/Dale	CCF552K43FKE36
	R14	2.43K	.5W 1% MF		
1	R7	4.75K	.5W 1% MF	Vishay/Dale	CCF554K75FKE36
1	R2	5.11K	.5W 1% MF	Vishay/Dale	CCF555K11FKE36
FOR 51x BUILD INCLUDING 24V RAILS					
2	R4	3.92K	.5W 1% MF	Vishay/Dale	CCF553K92FKE36
	R6	3.92K	.5W 1% MF		
2	R8	2.21K	.5W 1% MF	Vishay/Dale	CCF552K21FKR36
	R9	2.21K	.5W 1% MF		
FOR DUAL VPR BUILD INCLUDING ONLY 16V RAILS					
2	R4	2.43K	.5W 1% MF	Vishay/Dale	CCF552K43FKE36
	R6	2.43K	.5W 1% MF		
2	R8	1K5	.5W 1% MF	Vishay/Dale	CCF551K50FKE36
	R9	1K5	.5W 1% MF		
5	RV1	1K	.5W Cermet	Bourns	3296Y-1-102LF
	RV2		Multiturn Trimmer		
	RV3				
	RV4				
	RV5				

Heatsink Insulators					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
5	IC1		Silicone rubber pad	Bergquist	SPK10-0.006-00-54
	IC2				
	IC3				
	IC4				
	IC5				
5	IC1		Ins. Shoulder wash	Aavid Therm.	7721-7PPSG
	IC2				
	IC3				
	IC4				
	IC5				



IC Regulators					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
1	IC1	TL783	0.7A Linear	Texas Instruments	TL783CKCSE3
4	IC2	LM350T	3A Linear	National Semiconductor	LM350T/NOPB
	IC3				
	IC4				
	IC5				

Diodes, Rectifiers & LED's					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
10	CR1	1N4002	Rectifier	Fairchild Semiconductor	1N4002
	CR2				
	CR3				
	CR4				
	CR5				
	CR6				
	CR7				
	CR8				
	CR9				
	CR10				
1	BR1	B80R	Bridge Rectifier	Vishay	2W01G-E4/51
4	BR2	B80C7000/4000	Bridge Rectifier	Diodes, Inc.	GBJ2504-F
	BR3				
	BR4				
	BR5				
5	LED1	Green	3MM, Short Lens, T-1	Lumex	SSL-X3044LGD
	LED2				
	LED3				
	LED4				
	LED5				

Connectors					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
11	AC-In	Pitch 5.08mm	2 Pin Screw Term	TE Conn	282836-2
	AC-In				
	AC-In				
	AC-In				
	AC-In				
	CHA/GND				
	DC-Out				
	DC-Out				
	DC-Out				
	DC-Out				
	DC-Out				



Capacitors					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
20	C4	.01μF, 100V	X7R Ceramic	Vishay/BC	K103K15X7RH5TH5
	C5	(10nF)			
	C6				
	C7				
	C13				
	C14				
	C15				
	C16				
	C22				
	C23				
	C24				
	C25				
	C30				
	C31				
	C32				
	C33				
	C39				
	C40				
	C41				
	C42				
9	C1	.1μF, 100V	Film	WIMA	MKS2 .1/100/5
	C8	(100nF)			
	C10				
	C17				
	C19				
	C29				
	C34				
	C35				
C43					
4	C11	100μF, 35V	Radial, Electrolytic	Panasonic	EEU-FC1V101
	C20				
	C28				
	C38				
4	C12	1000μF, 35V	Radial, Electrolytic	Panasonic	EEU-FC1V102S
	C21				
	C26				
	C37				
2	C2	1000μF, 100V	Radial, Electrolytic	Panasonic	ECA-2AHG102
	C3				
4	C9	10000μF, 50V	Radial, Electrolytic	Panasonic	ECO-S1HA103EA
	C18				
	C27				
	C36				



Fuse Holders & Fuses					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
5	F1	5x20	PC Mount Fuse Holder	Camden	CFH02
	F2				
	F3				
	F4				
	F5				
2	F1	160mA Fast Blow	5x20 Glass, 250V	Siba	70-001-34/0.16A
	Spare				
6	F2	1.5A Fast Blow	5x20 Glass, 250V	Cooper Bussmann	BK/GMA-1.5-R
	F3				
	F4				
	F5				
	Spare				
	Spare				
USE 2.5A MAINS FUSE FOR 115V AC POWER SOURCE					
2	Mains	2.5A Slow Blow	5x20 Glass, 250V	Cooper Bussmann	BK-S506-2-5-R
	Spare				
USE 1.25A MAINS FUSE FOR 230V AC POWER SOURCE					
2	Mains	1.25A Slow Blow	5x20 Glass, 250V	Stewart Connector/Bel	5ST 1.25-R
	Spare				

