

Applied Engineering

Vulcan IIGS #4289, #8950, Vulcan //e #4589 PSU Parts List

CAPACITORS

C0, C1	0.1uF 250VAC X2 MKT
C2, C3	4.7nF 400VAC (Y class)
C4, C5	150uF 250V Electrolytic (#4289), 100uF 400V Electrolytic (#8950), 100uF 250V Electrolytic (#4589).
C6	100uF 35V (#4289), 100uF 25V (#8950)
Electrolytic	
C7, C8, C12	10uF 50V Electrolytic
C9	200pF 1KV Ceramic
C10	10nF 1KV Ceramic
C11	47nF
C13, C19, C99	470uF 16V Electrolytic
C15	2200uF 16V Electrolytic
C16, C17	1000uF 16V Electrolytic
C18, C20, C21	220uF 16V Axial electrolytic
C22	330nF

INDUCTORS

L1, L3, L4	SPE-107 28uH vertical or horizontal mount on different models
L2	SPB-104 18uH
LF1	3.9mH/3.9mH (#4289, #4589), 10mH/10mH (#8950) Common mode filter

RESISTORS

R1	2.0 Ohm 1% 5 Watt Wire Wound
R2	220K Ohm 0.5 Watt Wire Wound (#4289 & #8950), 110K Ohm 1W Metal Oxide Film (#4589)
R3	1.2 Ohm 2 Watt
R4	220K Ohm 1 Watt Metal Oxide Film (#4289 & #8950), 110K Ohm 2 Watt Wire Wound (#4589)
R5	27 Ohm

R6, R14, R15	560 Ohm
R7	390 Ohm
R8	560 Ohm 1% 2 Watt Wire wound
R9, R13, R21	10 Ohm
R10	27 Ohm 2 Watt Metal Oxide Film or Wire Wound
R11, R16	1.0K Ohm
R12	1.0K Ohm Trimpot
R17	270 Ohm
R18	22 Ohm
R19	39 Ohm
R20	1.5K Ohm
R22	390 Ohm
R23	62 Ohm
R24	330 Ohm 1% 2 Metal Oxide Film or Watt Wire Wound
R25	100 Ohm 0.5 Watt
R26	270 Ohm 1 Watt
R28	150 Ohm 0.5 Watt

SEMICONDUCTORS

D1, D8, D9	1N5392 1.5A 100V General purpose rectifier
D2	1N5399 1.5A 1000V General purpose rectifier
D3, D4, D5, D6,	
D7	1N4148 500mA 100V Fast switching small signal diode
DB1	W06M 1.5A 600V Bridge rectifier
MBR1	MBR10100 10A 100V Dual common cathode Schottky rectifier
MBR2	MBR2545CT 30A 45V Schottky rectifier
Q1	MJH16018 10A 1500V (#4289), MJH12005 8A 750V (#8950) NPN Power transistor
Q2, CR1	2N3904 200mA 40V NPN transistor
Q3	2N4033 1A 80V PNP Silicon Planar RF transistor
SCR	T106B2 4A 200V Silicon Controlled Rectifier
U1	4N35 50mA 70V Optocoupler
ZD1, ZD2, ZD3	1N751A 5.1V 500mW Zener

MISCELLANEOUS

F1	2A 250V Fast blow fuse M205
FAN	ELINA FAN Model FDC605S-12L 60mm 12VDC 80mA
FUSE HOLDER	2A 250V Panel mount socket M205
IEC SOCKET	6A 250VAC Panel mount IEC socket
CN1	6 pin Molex header
CN2	2 pin Male header 0.1" pitch
S1 switch	2A 250V SPST, SPDT Panel mount mini rocker
T1	TF-10 Applied Engineering SMPS transformer
V-SELECT	115V/230V Panel mount DPDT slide switch