

Manufacturer
AE
APPLIED ENGINEERING
Model No: 8950/4589

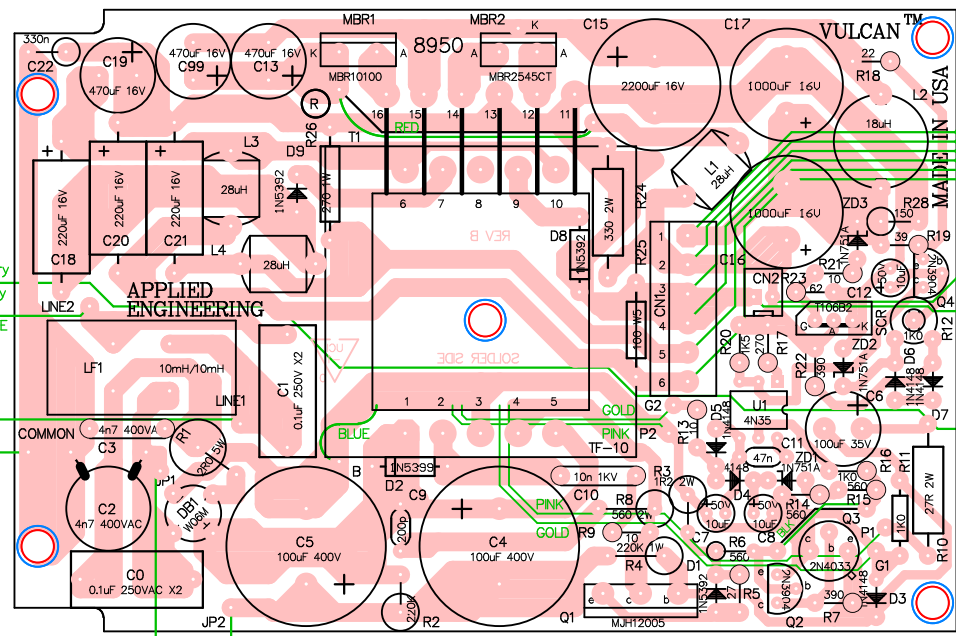
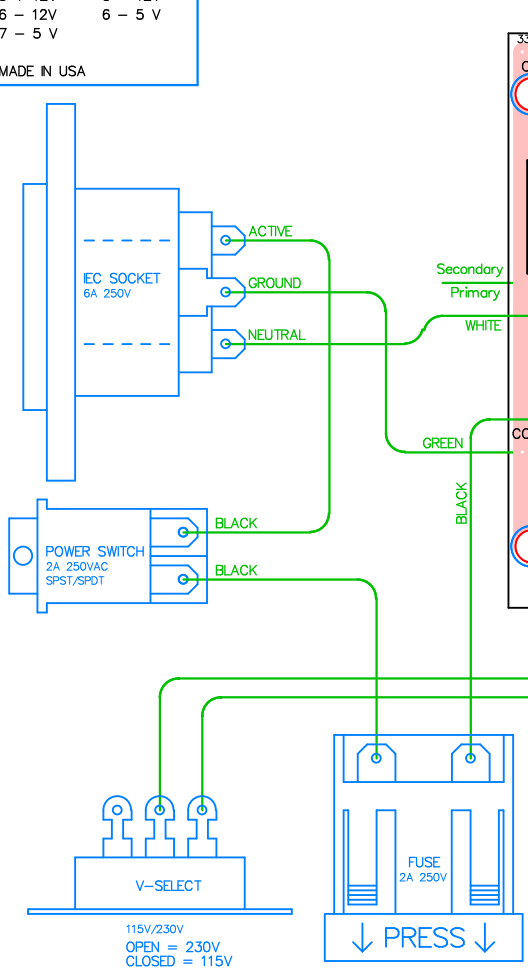
Specifications:
70 full watts w/o fan
115/230 VAC 50/60 Hz
40 degrees C w/ fan
60 degrees C w/o fan
under full load
Adjustable 5 volts DC

OUTPUT IGS: OUTPUT //e:
1 COMMON 1 COMMON
2 COMMON 2 COMMON
3 KEY 3 + 5 V
4 + 5 V 4 + 12V
5 + 12V 5 - 12V
6 - 12V 6 - 5 V
7 - 5 V

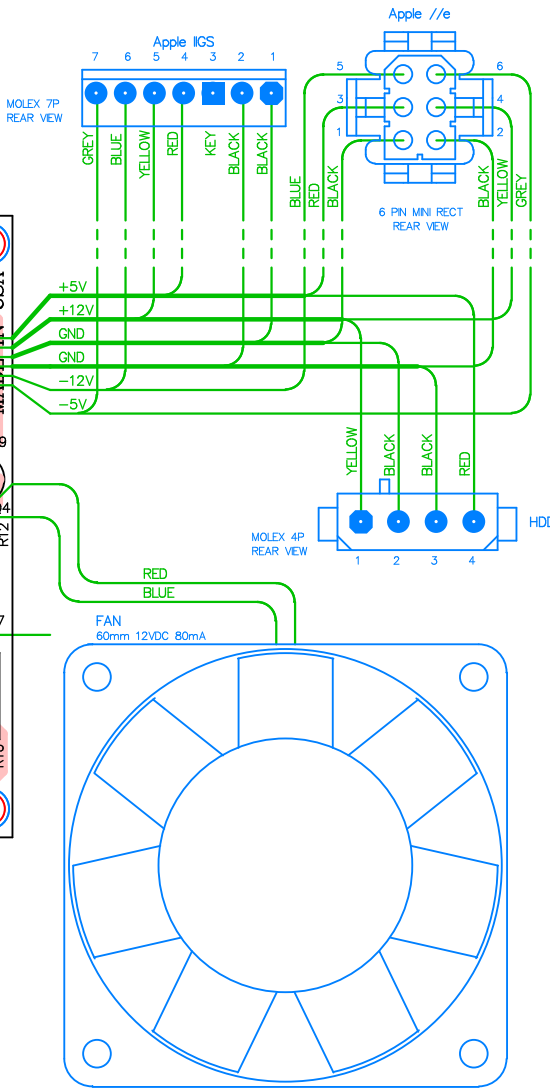
MADE IN USA

Component Notes:			
C4, C5 (#4589)	100uF 250V	(ESR < 1.0 Ohms)	Acceptable ESR reading
C4, C5 (#8950)	100uF 400V	(ESR < 1.2 Ohms)	
C6 (#4589)	100uF 35V	(ESR < 0.5 Ohms)	
C6 (#8950)	100uF 25V	(ESR < 0.5 Ohms)	
C7, C8, C12	10uF 50V	(ESR < 1.9 Ohms)	
C13, C19, C99	470uF 16V	(ESR < 0.2 Ohms)	
* C13/C99	(parallel ESR < 0.1 Ohms)		
C15	2200uF 16V	(ESR < .07 Ohms)	
C16, C17	1000uF 16V	(ESR < 0.1 Ohms)	
C18, C20, C21	220uF 16V	(ESR < 0.4 Ohms)	

Component Variants	//e PCB #4589	IGS PCB #8950
C4, C5	100uF 250V	100uF 400V
C6	100uF 35V	100uF 25V
Q1	MJH16018	MJH12005
LF1	3.9mH/3.9mH	10mH/10mH



NOTE: Tracks are for reference only.
Track widths are not-to-scale.
Pads are not-to-scale.
Component placement is +/- 25mm



Title Applied Engineering - Vulcan HDD Power Supply for Apple IGS & Apple //e		
Size A4	Number #8950 & #4589 (REV B)	Revision 1.0
Date: 17 Feb 2020	Sheet 1 of 1	Drawn By: Mark Cummings
File: VULCAN50.PCB	Checked By:	
Protel for Windows v1.1		