



"The best high voltage design solution"

SP7222, 110W, Fully REGULATED, SPECIFICATION SHEET



Standard Model Number : **SP7222**

RoHs Model Number : **SP7222/Y**

ELECTRICAL SPECIFICATIONS

Standard Model is NOT RoHs Compliant

Input Voltage	12V to 17Vdc	Input Filter	Pi Network
Output Voltage	0V to + or - 650Vdc	Efficiency	> 85%
Output Current	0 to 605mA	Short Circuit Protection	Continuous
Maximum Output Power	110W	Switching Frequency	100 kHz
Voltage Accuracy	< 5%	Isolation	1000 Vdc
Line Regulation	< 1%	Input / Output Capacitance	< 200pF
Load Regulation	< 5%	Output Voltage Monitor	0 - 5Vdc = 0 - 650Vdc
Output Ripple	< 1% P-P	Output Current Monitor	0 - 5Vdc = 0 - 605mA
Reference Voltage	5Vdc @ 1mA	Output Monitor Current	1mA
Programming Voltage	0 - 5Vdc @ <100uA	Output Monitor Accuracy	2.5%

GENERAL SPECIFICATIONS

Temp. Stability	+/- 0.02%/°C	EMI/RFI	Six Sided Shield
Temp. (Operating , Case)	-25 to +75°C	Derating	None
Temp. (Storage)	-55 to +100°C	Cooling	Free-Air Convection
Humidity	0 to 95% (Non-Condensing)		

PHYSICAL SPECIFICATIONS

Dimensions	3.5 x 5.5 x 0.92 inches	Case Material	Black Coated Metal
Weight	18.5 Oz		(With Non-Conductive Base Plate)

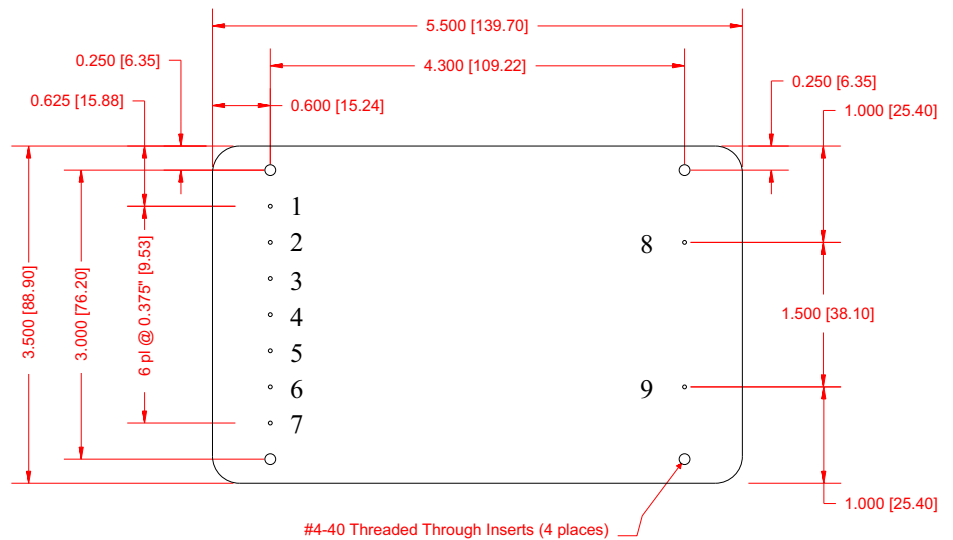




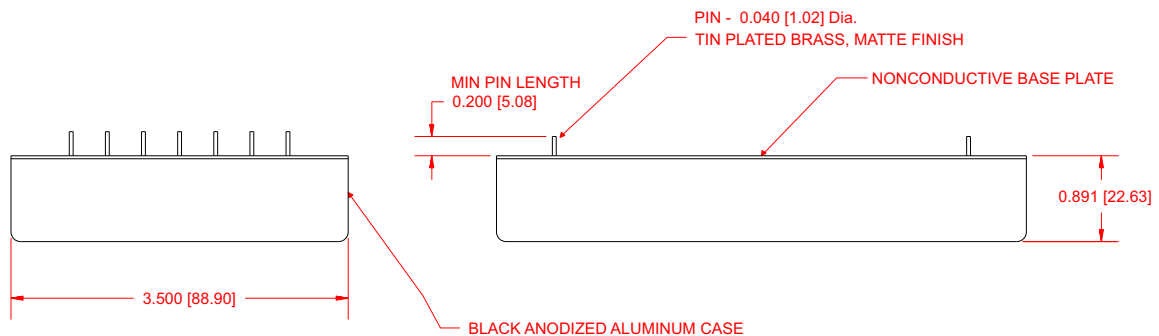
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PIN #	FUNCTION
1	- Input
2	+ Input
3	5V Reference Voltage
4	Control Voltage
5	Signal Gnd
6	Output Voltage Monitor
7	Output Current Monitor
8	+ Output
9	- Output



Bottom View



*Dimensions are in Inches
[Metric equivalents in brackets]*



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APPLICATION NOTES

CLEANING AGENTS

In order to avoid possible damage, any penetration of cleaning fluids must be prevented, since the power supplies are not hermetically sealed.

NUCLEAR AND MEDICAL APPLICATIONS

American Power Design products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of American Power Design, Inc.

SAFETY REQUIREMENTS

The converters are designed to meet North American and International safety regulatory requirements per UL 60950-1/CSA 22.2 No. 60950-1-07 Second Edition, IEC 60950-1:2005, and EN 60950-1:2006. Basic Insulation is provided between input and output. To comply with safety agencies requirements, an input line fuse (18A SB) must be used external to the converter.

If one input fuse is used for a group of modules, the maximum fuse rating should not exceed 20A.

WARRANTY

All products manufactured by American Power Design, Inc. (APD) are warranted to be free of defects due to material or workmanship for a period of one year from date of shipment. At our option, APD will repair or replace any non-conforming product.

APD expressly disclaims any liability for consequential or incidental damages resulting from the use or misuse of its products by the purchaser or others.

This warranty is in lieu of all warranties expressed or implied, including the warranties of merchantability. No other warranties, obligations, or liabilities are expressed or implied.

All products being returned for repair require a return material authorization(RMA) assigned by APD prior to return shipment.