



"The best high voltage design solution"

SP7209, 20W, Fully Regulated, SPECIFICATION SHEET



Standard Model Number : **SP7209**

RoHs Model Number : **SP7209/Y**

ELECTRICAL SPECIFICATIONS

Standard Model is NOT RoHs Compliant

Input Voltage	18-36Vdc	Input Filter	Low ESR Capacitor
Output Voltage	0V to 200Vdc	Efficiency	85% (typ.)
Output Current	100mA	Short Circuit Protection	Continuous
Voltage Accuracy	+/- 3%	Switching Frequency	130 kHz
Line Regulation	+/- 2%	Output Isolation	1000 Vdc
Load Regulation	+/- 4% (20% to full Load)	Input / Output Capacitance	< 200pF
Output Ripple	< 0.5 % P-P	Reference Voltage	5Vdc @ 1mA
		Programing Voltage	0-5Vdc

GENERAL SPECIFICATIONS

Temp. Stability	+/- 0.02%/°C	EMI/RFI	Six Sided Shield (Case is connected to -IN)
Temp. (Operating , Case)	-25 to +70°C	Derating	None
Temp. (Storage)	-40 to +125°C	Cooling	Free-Air Convection

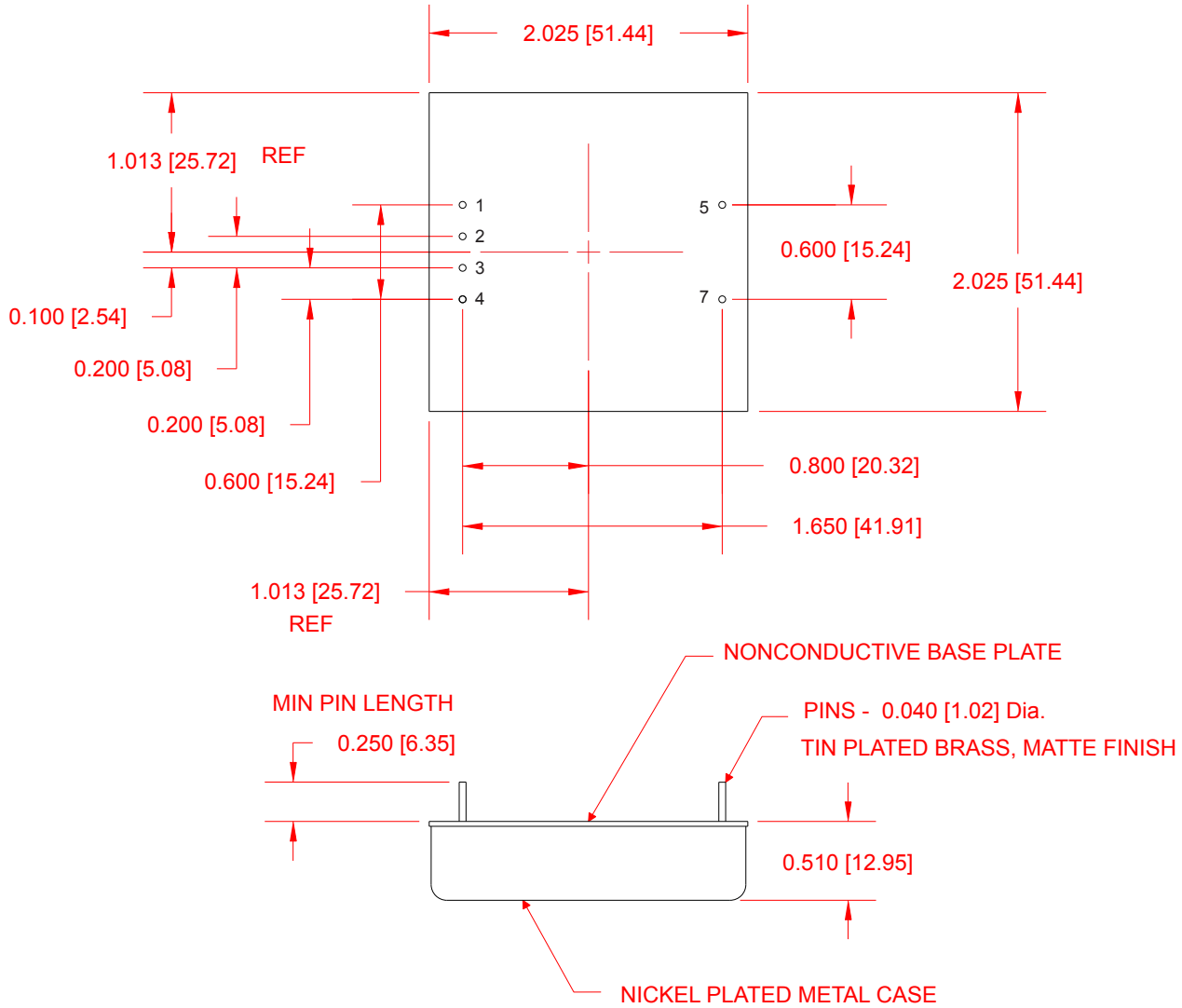
PHYSICAL SPECIFICATIONS

Dimensions	2 x 2 x 0.51 inches	Case Material	Nickel Plated Copper
Weight	2.8 Oz		(With Non-Conductive Base Plate)





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PIN #	SINGLE
1	+ Input
2	5V Ref
3	Control
4	- Input
5	+ Output
7	- Output

*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 must be used external to the converter. The table below provides the recommended fuse rating for use with this family of products.

Input Voltage Range	Fuse Rating
18-36Vdc	2A

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.

