



"The best high voltage design solution"

# SP7137, 5W, Fully Regulated, SPECIFICATION SHEET



Standard Model Number : **SP7137**

RoHs Model Number : **SP7137/Y**

*Standard Model is NOT RoHs Compliant*

## ELECTRICAL SPECIFICATIONS

Input Voltage .....	18-36Vdc	Input Filter .....	Low ESR Capacitor
Output Voltage .....	0 to + or-600Vdc	Efficiency .....	78% (typ.)
Output Current .....	8mA	Short Circuit Protection .....	Continuous
Voltage Accuracy .....	+/- 3%	Switching Frequency .....	130 kHz
Line Regulation .....	+/- 2%	Output Isolation .....	1000 Vdc
Load Regulation .....	+/- 3% (20% to full Load)	Input / Output Capacitance .....	< 80pF
Output Ripple .....	< 0.3 % P-P	EMI (Tested w/ Customer Pick-Up) .....	< 120mV P-P
Reference Voltage .....	5Vdc @ 1mA		

## GENERAL SPECIFICATIONS

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

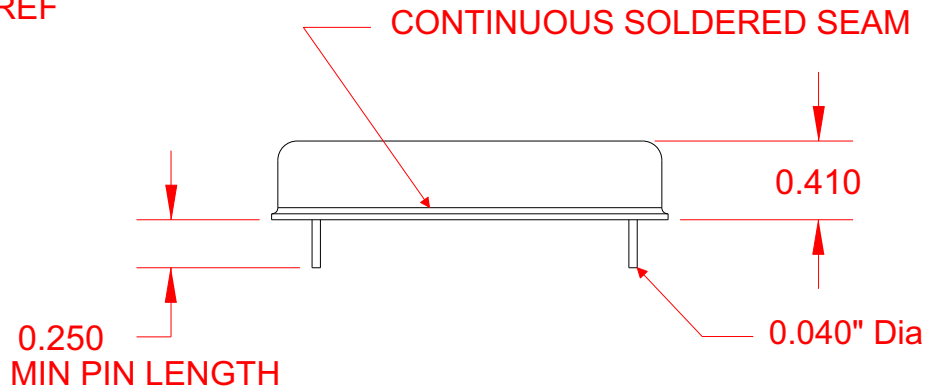
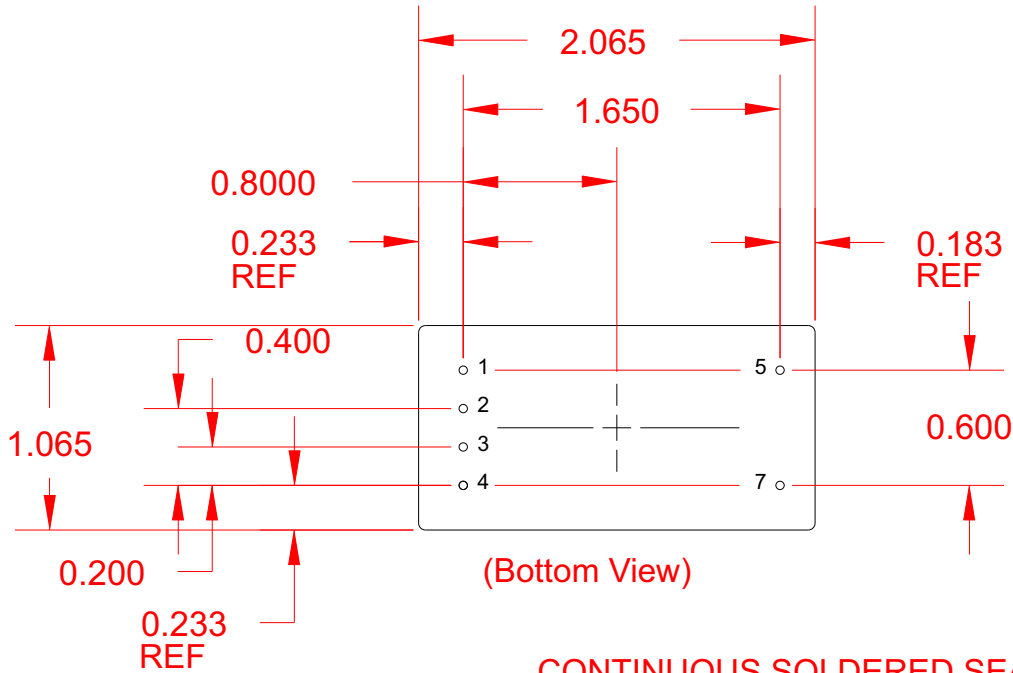
## PHYSICAL SPECIFICATIONS

Dimensions .....	1 x 2 x 0.41 inches	Case Material .....	Nickel Plated Copper
Weight .....	1.2 Oz		(With Non-Conductive Base Plate)





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

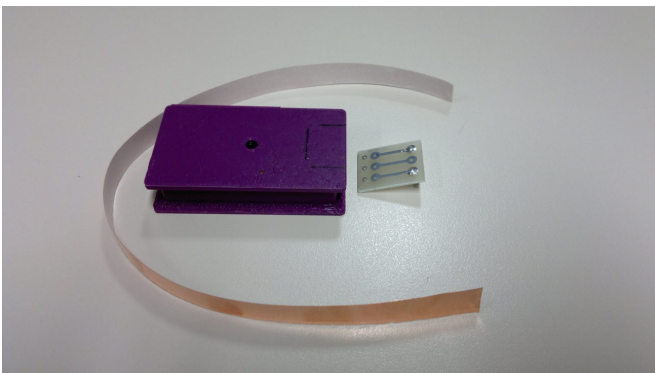


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### CUSTOMER PICK-UP

- 1.- Windings 100 turns of Insulated Copper wire ( $\varnothing 0.4\text{mm}$ ) around the core.
- 2.- To stick with stronger glue (Loctite or similar) the PCB to the core.
3. - Welding the ends of wire to the PCB terminals.
- 4.- To put a a polyimide film (Kapton).
- 5.- Later, to cover with copper foil coated with an electrically conductive acrylic adhesive.
- 6.- One of the ends, it to weld the PCB, and also to copper tape (GND terminal).
- 7.- To put a a polyimide film (Kapton) again.
- 8.- Oscilloscope attached to width 30mV y 100us.

### CRADLE KIT





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## CUSTOMER TEST FIXTURE

