

Table 1: Electrical Specifications

Specification	Min	Typ	Max	Units	Notes
Input	---	---	25.00	Volts	Absolute Max, Survivability
	10.00	12.00	18.00	Volts	0 < Pout < 6W
	11.00	12.00	18.00	Volts	0 < Pout < 8W
5V output	4.75	5.00	5.25	Volts	
	0.00	---	0.05	Amps	
Vadj	0.00	---	9.75	Volts	Radj = Short (Gnd) / Open
HV output	150	---	200	Volts	Open > Radj > Short (Gnd), +/-5%
	0.00	---	6.00	Watts	-20C < Tamb < 60C
	0.00	---	8.00	Watts	-20C < Tamb < 50C
	0.00	---	0.08	Amps	Pout <= 8W
Efficiency	78	80	---	%	At 50-100% rated load, 12VDC in
Trise	---	35	---	Deg-C	Pout = 6W, 15VDC in, Free-Air
	---	45	---	Deg-C	Pout = 8W, 15VDC in, Free-Air

Notes:

1. Efficiency and temperature rise is with 5V auxiliary output unloaded.
2. No reverse polarity protection is provided.
3. Short circuit protected for switching components, however the secondary of the power transformer is stacked on top of the input voltage such that a short circuit will allow current to flow: Fuse input at 1A, fast blow.

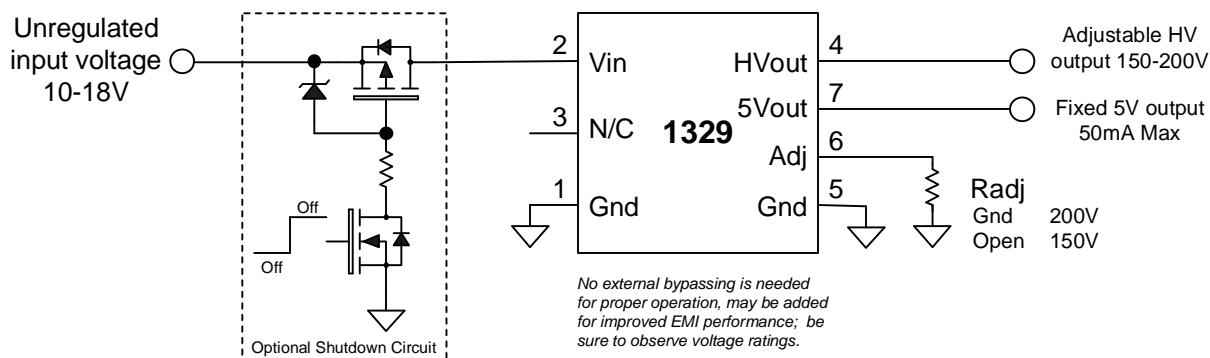


Figure 1: Typical Connection

$$R_{adj} = \left(1 / \left(\frac{V_{out} - V_{ref}}{300 \times V_{ref}} - \frac{1}{22} \right) \right) - 51$$

Where Vref = 9.746 and Radj is in K-Ohms

Figure 2: Radj Calculation

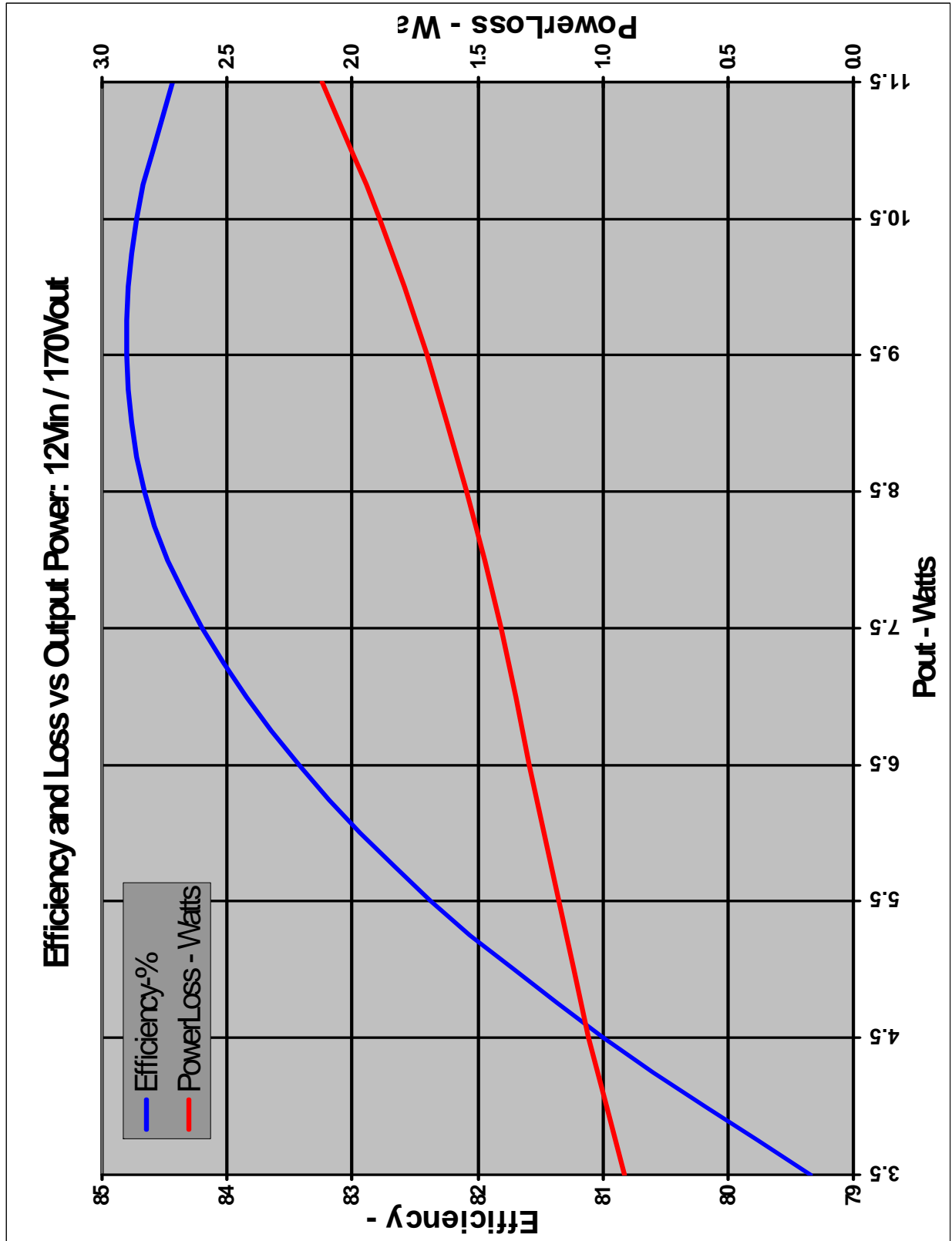


Figure 3: Operating Characteristics

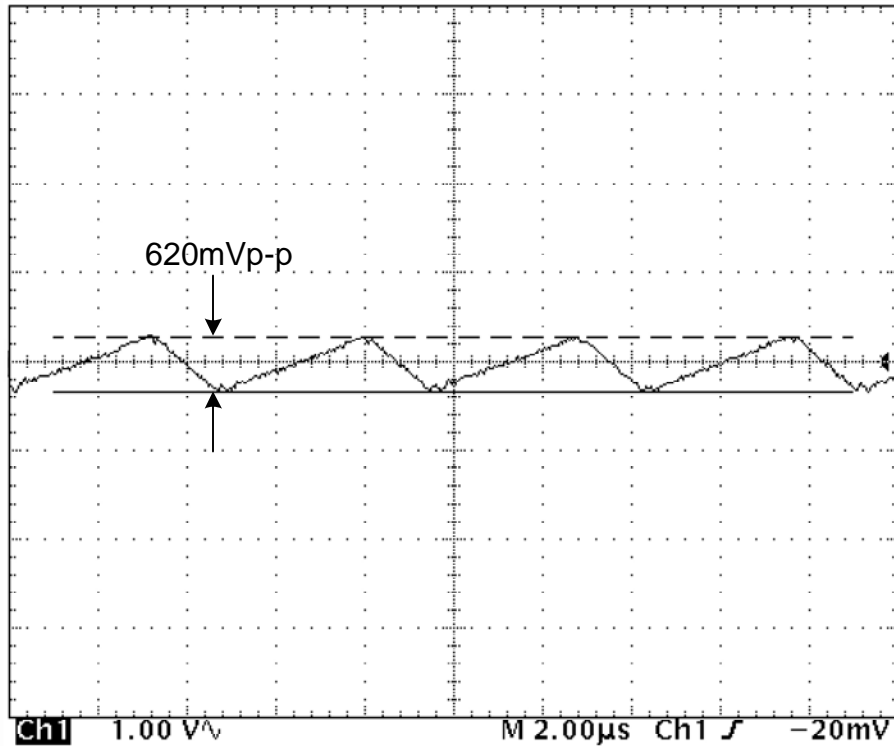


Figure 4: Output Ripple, 12DC In 180V out, 6W

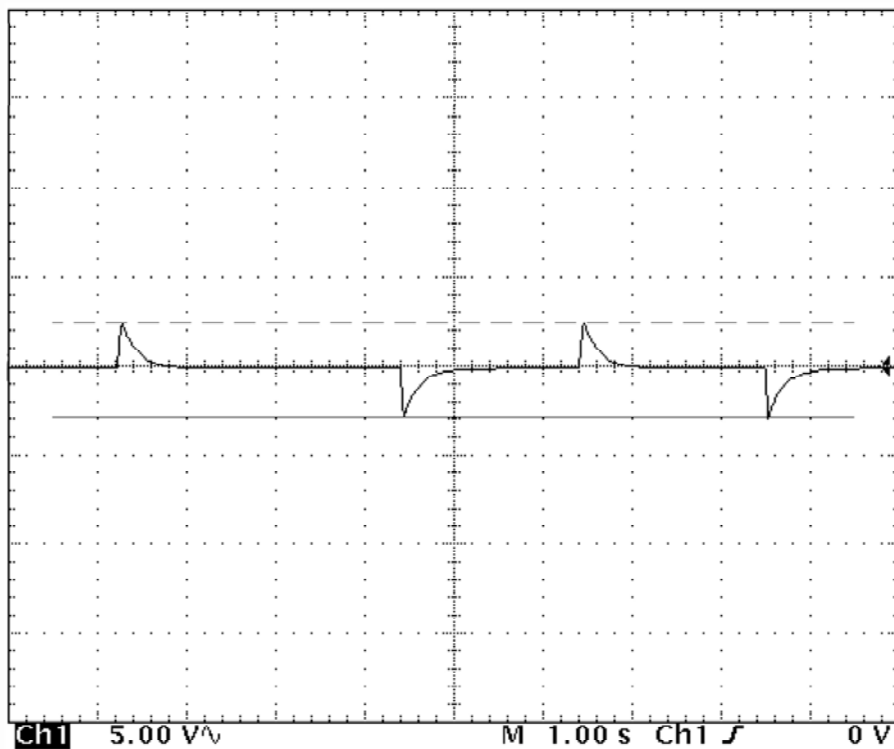


Figure 5: Load Step Stability, 12DC In 180V Out, 0-6W

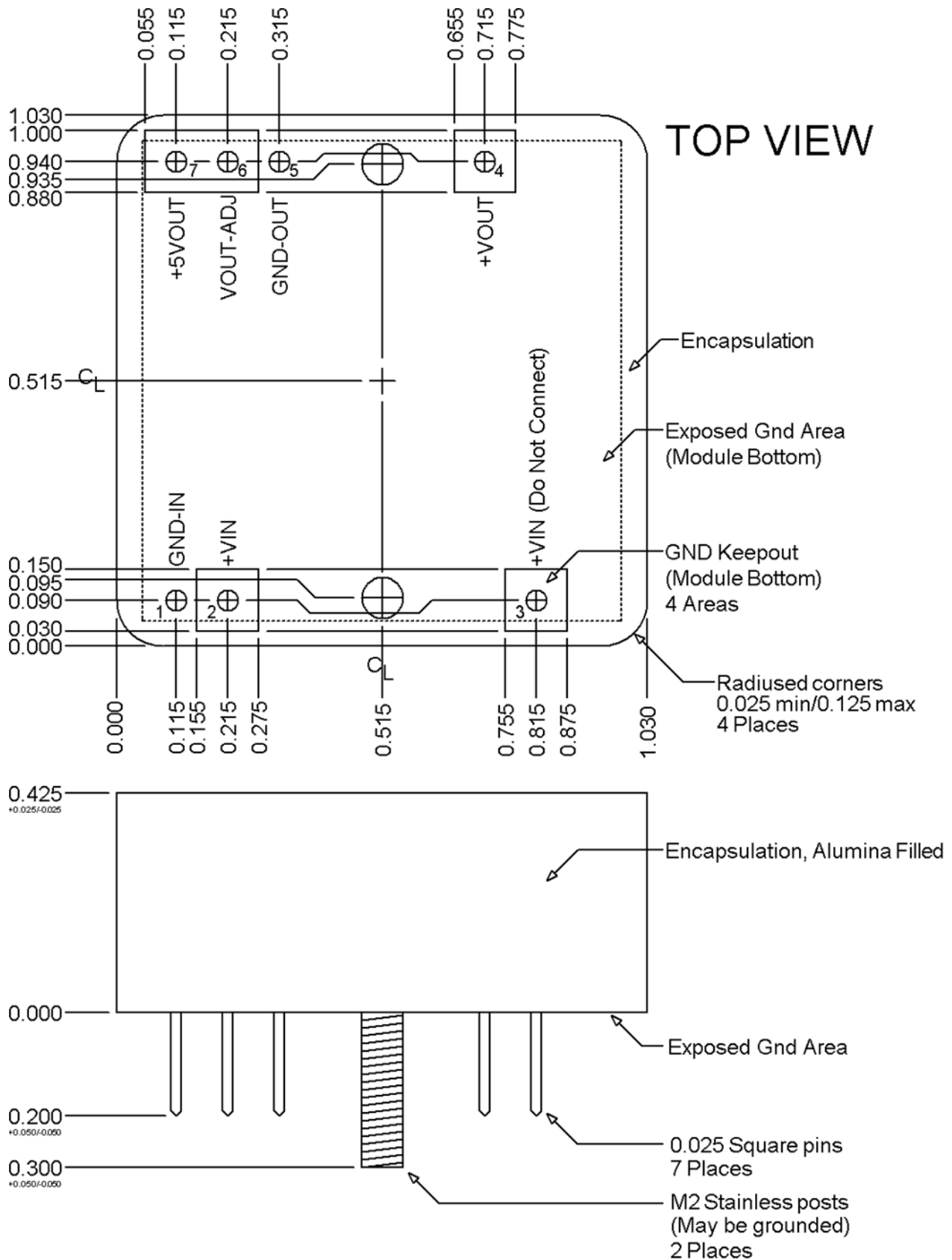


Figure 6: Package Outline