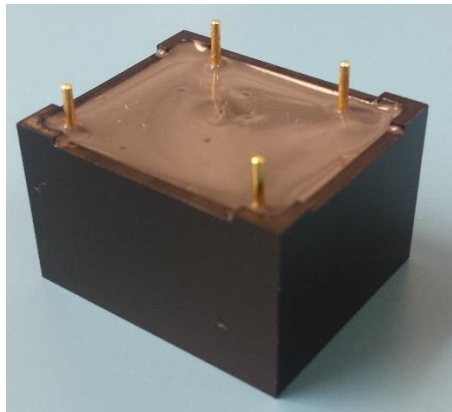




HVPS-900A

HIGH VOLTAGE, ULTRA MINIATURE DC/DC CONVERTER



- No External Components Required
- Single output isolated High Voltage DC/DC Converter
- Full Military Temperature Range
- PC Board Mount
- High Reliability, High Voltage
- Ultra Miniature, Low Profile

DESCRIPTION:

The HV series from Prime Power is a single output, high voltage DC/DC converter in an ultra miniature encapsulated package. The HV series operates over the full military temperature range of -55°C to $+85^{\circ}\text{C}$ with no electrical drifting and without the need for a heat sink. The HV series requires no external components to properly operate. The HV series is qualified to the environmental requirements of MIL-STD-810 F. A typical application for the HV series DC/DC converter is to power the firing mechanism when launching a rocket or missile.

GENERAL SPECIFICATIONS	
INPUT VOLTAGE	4.5 - 5.5VDC
FREQUENCY RANGE	50 KHZ $\pm 30\%$
OUTPUT VOLTAGE	800-1000VDC
OUTPUT CURRENT	3mA MAX
PHYSICAL SIZE	1.181 X 1 X .73
WEIGHT	CONTACT: SALES@PRIME-POWER.COM
MTBF	CONTACT: SALES@PRIME-POWER.COM

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	1.19 X 1 X .73
COOLING METHOD	CONVECTION
ENCAPSULATION	SILICONE POTTING
ENCLOSURE FINISH	DELRIN
INPUT/OUTPUT TERMINATION	4 SOLDERABLE GOLD PINS.

WWW.PRIME-POWER.COM

SALES@PRIME-POWER.COM

PRIME POWER INC: (603) 329-4675.
1 OWENS CT.
HAMPSTEAD NH, 03841.



HV-3-900A

High Voltage DC/DC Converter

ELECTRICAL SPECIFICATIONS	
OUTPUT VOLTAGE	800-1000VDC
LINE REGULATION (LO LINE TO HI LINE)	±10% (OUTPUT PROPORTIONAL TO INPUT VOLTAGE 900VDC AT 5VDC IN 3MA LOAD)
PARD (RIPPLE NOISE) DC-20MHZ	3Vp-p
EFFICIENCY (MIN)	70%
ISOLATION	200VDC
OUTPUT POWER	3 WATTS

ENVIRONMENTAL SPECIFICATIONS		
PRESSURE-ALTITUDE	MIL-STD-810F	METHOD 501.1 PROCEDURE 1
HIGH TEMPERATURE	MIL-STD-810F	METHOD 501.4 PROCEDURE 1 & 2
LOW TEMPERATURE	MIL-STD-810F	METHOD 502.4 PROCEDURE 1 & 2
HUMIDITY	MIL-STD-202G	METHOD 103B
FUNGUS	MIL-STD-810F	METHOD 508, CONDITION A
SALT FOG	MIL-STD-202G	METHOD 101 E, TEST CONDITION A
SAND AND DUST	MIL-STD-810F	METHOD 501.4, PROCEDURE 1 & 2
EXPLOSIVE ATMOSPHERE	MIL-STD-810F	METHOD 511, CONDITION A
ACCELERATION	MIL-STD-810F	METHOD 513.5, PROCEDURE 1 & 2
VIBRATION	MIL-STD-810F	METHOD 514.2
SHOCK	MIL-STD-883	METHOD 2002.4

TEMPERATURE SPECIFICATIONS	
STORAGE TEMPERATURE	-55°C TO +105°C
OPERATING TEMPERATURE	-55°C TO +85°C

