



**HVPSI**

**HVP**

High Voltage Products. High Voltage Experts.

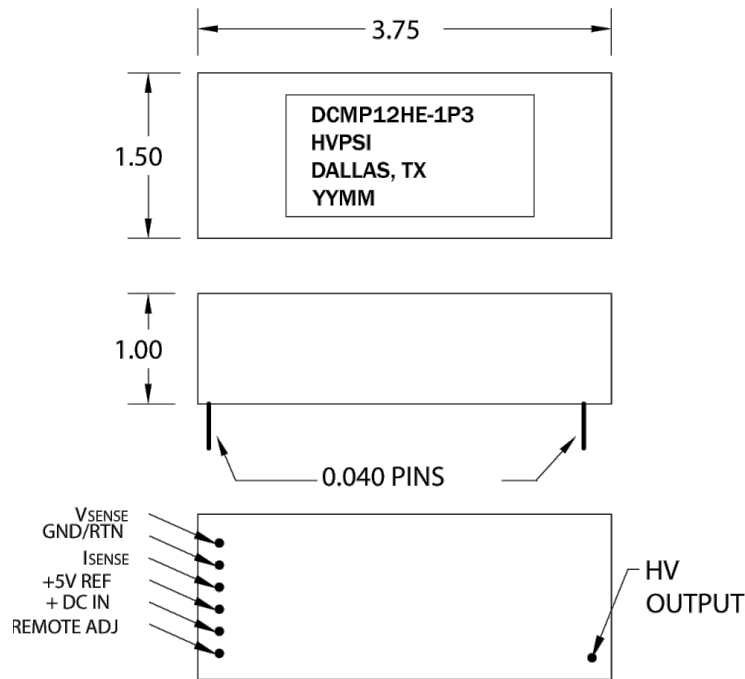
# DCMP12HE Series

High Efficiency Regulated DC-DC  
High Voltage Modules

- High Efficiency >70%
- 0 to  $\pm 1$ kV of output voltage
- Up to 3W of output power
- 12VDC Input voltage
- Externally Voltage Programmable
- Reference Voltage Output
- 1000:1 Voltage Sense
- 1V/mA Current Sense
- Short-Circuit Protected
- Rugged, Encapsulated Module
- PCB Mounting
- Resonant Switch Mode Topology
- Low Ripple



	Conditions	Value	Units
<b>Input</b>			
<b>Input Voltage</b>	All Versions	12	VDC
<b>Power</b>	At Max load	<5	W
<b>Output</b>			
<b>Voltages Available</b>	Primary Output	$\pm 1$	kVDC max
<b>Voltage Adjustment</b>	0 – 5 VDC Input	10% to 100%	-
<b>Power</b>	Nominal Input, Max Vo	3	W
<b>Current, Primary Output</b>	Nominal Input, Max Vo	3	mA
<b>Regulation, Primary Vo</b>	Any Static Load, Max Vo	<2%	VDC
<b>Ripple</b>	Full Load, Max Vo	5%	Vp-p
<b>Line Regulation</b>	Over input V range, Full Power	<2%	VDC
<b>Stability</b>	Over 8hr, 30 min warm up	<0.2%	VDC
<b>Environmental</b>			
<b>Operating Temperature</b>	Case Temp, Full Load, Max Vo	0 to +60	$^{\circ}$ C
<b>Temp Coefficient</b>	Over the Operating Temperature	0.10	%/ $^{\circ}$ C
<b>Storage</b>	Non-Operating, Case Temp	-40 to +85	$^{\circ}$ C
<b>Humidity</b>	Non-Condensing	0 to 95%	RH
<b>Altitude</b>	Standard Operating Conditions	0 to 10000	Feet



Part Number	Input Voltage	Output Voltage	Polarity	Output Power	Maximum Output Current
DCMP12HE-1P3	0 to 12 VDC	0 to 1kV	Positive	3 Watts	3mA
DCMP12HE-1N3	0 to 12 VDC	0 to -1kV	Negative	3 Watts	3mA

### Applications:

- Photomultipliers
- Ionizers
- High Voltage Biasing
- CRT Grid Circuits
- Biasing
- Dielectric Testing
- Piezoelectric Drivers
- Electrostatic Chucks
- Sealing Applications
- Ink Jet Printers
- Photo Detectors

### Mechanical:

- Dimensions: 3.75" x 1.5" x 1.0"
- Pins: 0.040" Diameter
- Weight: 6.0 Ounces
- Operating Temperature Range: -40°C to +70°C