



HVPSI

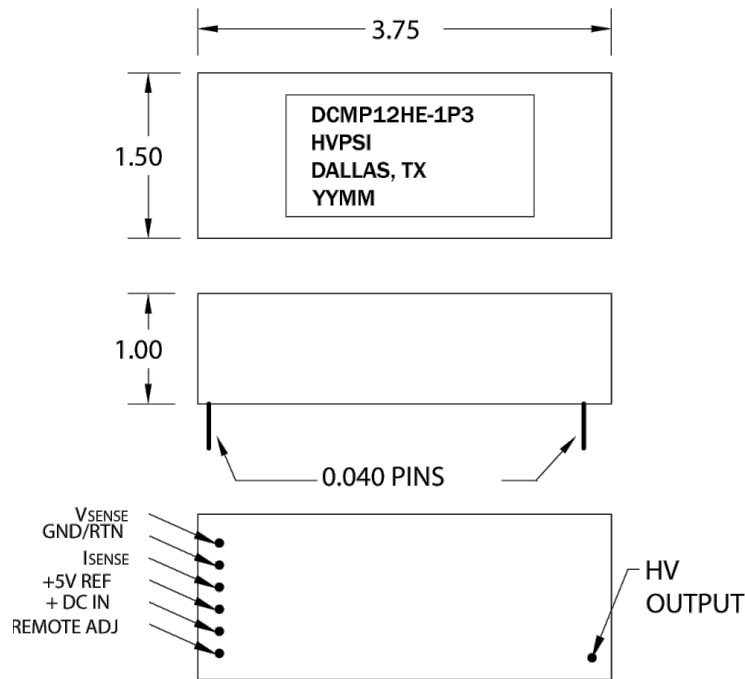
DCMP12HE Series

High Efficiency Regulated DC-DC
High Voltage Modules

- High Efficiency >70%
- 0 to ± 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
Input			
Input Voltage	All Versions	12	VDC
Power	At Max load	<5	W
Output			
Voltages Available	Primary Output	± 1	kVDC max
Voltage Adjustment	0 – 5 VDC Input	10% to 100%	-
Power	Nominal Input, Max Vo	3	W
Current, Primary Output	Nominal Input, Max Vo	3	mA
Regulation, Primary Vo	Any Static Load, Max Vo	<2%	VDC
Ripple	Full Load, Max Vo	5%	Vp-p
Line Regulation	Over input V range, Full Power	<2%	VDC
Stability	Over 8hr, 30 min warm up	<0.2%	VDC
Environmental			
Operating Temperature	Case Temp, Full Load, Max Vo	0 to +60	$^{\circ}$ C
Temp Coefficient	Over the Operating Temperature	0.10	%/ $^{\circ}$ C
Storage	Non-Operating, Case Temp	-40 to +85	$^{\circ}$ C
Humidity	Non-Condensing	0 to 95%	RH
Altitude	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