

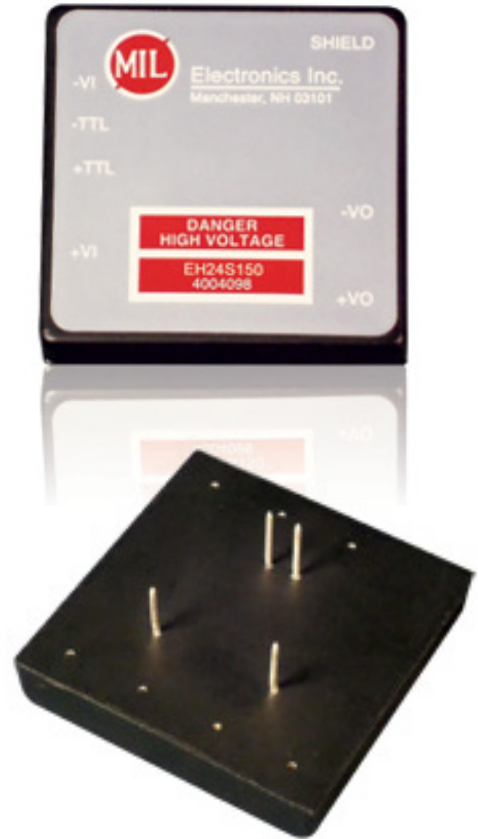


EH Series

Non-Shielded Ultra Low Noise High Voltage DC-DC Converter

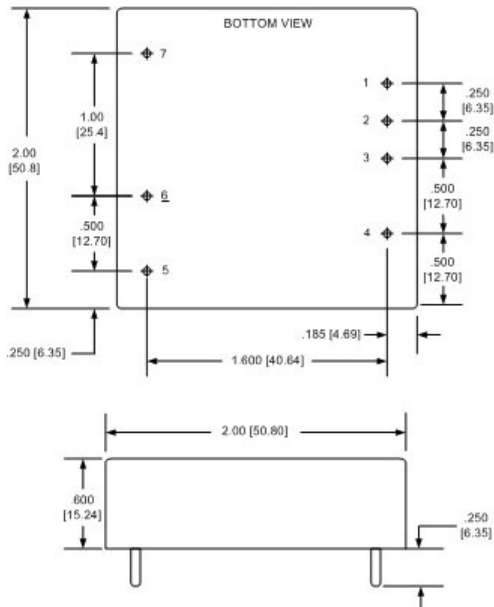
The new EH Series DC-DC converters are ideal for applications that require high output regulation with ultra low output noise. These 5 watt converters offer a wide selection of input and output voltage combinations. The series is fully encapsulated and sealed in miniature phenolic cases allowing an operating temperature range of 0 to +71° C without heat sinking or output deregulation.

Product	Ein	Eout	Max out	Max Pwr	Typ FL Efficiency	Iin FL Typ	Output Ripple Max @ FL	Output Voltage Tol
	VDC	VDC	mA	Watts	%	mA	mVp-p	± %
EH12S150	12 ± 10%	100	45	4.5	75	0.600	50	2
EH12S200	12 ± 10%	150	30	4.5	75	0.600	50	2
EH12S100	12 ± 10%	200	22	4.4	75	0.587	50	2
EH12S250	12 ± 10%	250	20	5.0	75	0.667	50	2
EH12S300	12 ± 10%	300	15	4.5	75	0.600	50	2
EH24S100	24 ± 10%	100	45	4.5	75	0.286	50	2
EH24S150	24 ± 10%	150	30	4.5	75	0.286	50	2
EH24S200	24 ± 10%	200	22	4.4	75	0.279	50	2
EH24S250	24 ± 10%	250	20	5.0	75	0.317	50	2
EH24S300	24 ± 10%	300	15	4.5	75	0.286	50	2
EH48S100	48 ± 10%	100	45	4.5	75	0.143	50	2
EH48S150	48 ± 10%	150	30	4.5	75	0.143	50	2
EH48S200	48 ± 10%	200	22	4.4	75	0.140	50	2
EH48S250	48 ± 10%	250	20	5.0	75	0.159	50	2
EH48S300	48 ± 10%	300	15	4.5	75	0.143	50	2



EH pin configuration

Mechanical Drawing



APPLICATIONS

- Solid State Detectors
- Photo Detectors
- Capacitor Charging
- Piezoelectric Devices
- Ultrasonic Transducers

Pin #	Function
1	- Vin
2	- TTL
3	+ TTL
4	+ Vin
5	+ Vout
6	- Vout
7	Shield

FEATURES

- 5 Watt DC to DC
- Output Voltage to 300 VDC
- Standard Inputs: 12VDC, 24VDC and 48 VDC
- High I/O Isolation
- Over Current Protected
- Low Profile Package
- No Heatsinking Required
- Six Sided Continuous Shielding

ELECTRICAL SPECIFICATIONS

- Input Voltage Tolerance: +/- 10%
- Line Regulation: 1% LL to FL
- Load Regulation: 2% FL
- Output Voltage Tolerance: +/- 2%
- Switching Frequency: 100 kHz
- Efficiency: 75% Typ.
- Output Ripple: <50mV P-P
- Isolation: 2500 VDC
- Remote Shutdown: (TTL)

PHYSICAL SPECIFICATIONS

- Size: 2 X 2 x .5H (50.8mm X 50.8mm X 12.7H)
- Weight: 55 Grams
- Encapsulation: 100% Silicone
- PC Pins 4: 04 D X .200L (1.016mm X 5.08mm)
- Temperature Operation: -25 to +70C
- Temperature Storage: -55 TO 70C