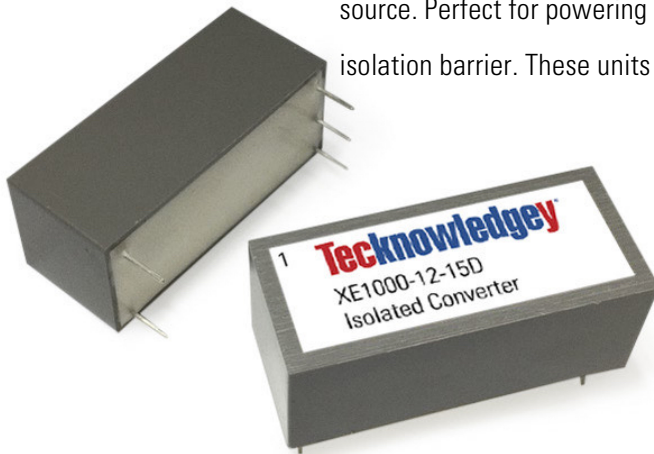


Tecknowledgey®

XE1000 Series High Isolation DC-DC Converters

The Tecknowledgey XE1000 series of high-isolation DC to DC converters are for applications where floating isolated circuitry requires an independent low voltage power source. Perfect for powering any device or circuit that operates across a high voltage isolation barrier. These units will deliver up to 1 watt of power and are PCB mountable.



Application

- Isolated feedback circuits
- Gate-drive circuitry
- Off-line Power Systems
- Optically Isolated telemetry, sensory circuits
- "Spot" power in high voltage and hot-ground systems

Features

- Extreme isolation: 15KVDC / 10KVAC rms (60Hz)
- 1.7" creepage distance: input to output
- Flexible input/output configurations
- Input voltage range +/- 10%
- Low ripple and 3% output regulation
- 1 Watt output power
- Compact size ideal for PCB mounting
- Rugged and reliable
- Can be ganged for increased output voltage and power
- Custom models available (ask about of 4 Watt version)
- Low Leakage: >10,000 Mohm, <10pF

Models

Rated Input

Output

Part Number

12V

5V Single

XE1000-12-05S

$\pm 5V$ Dual

XE1000-12-05D

12V Single

XE1000-12-12S

$\pm 12V$ Dual

XE1000-12-12D

15V Single

XE1000-12-15S

$\pm 15V$ Dual

XE1000-12-15D

24V

5V Single

XE1000-24-05S

$\pm 5V$ Dual

XE1000-24-05D

12V Single

XE1000-24-12S

$\pm 12V$ Dual

XE1000-24-12D

15V Single

XE1000-24-15S

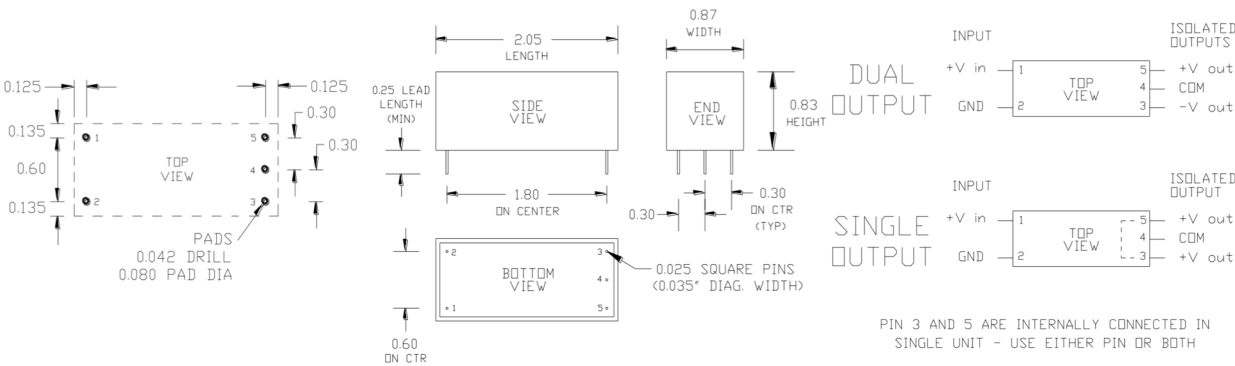
$\pm 12V$ Dual

XE1000-24-15D

PCB Layout

Mechanical

Electrical



Soldering Guidelines

Due to their size, all XE1000 converters are exclusively bulk packaged and not available in tubes or strips.

Packaging	Bulk Only
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MSL Requirements	None
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Washable	Yes
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Wave Soldering

Peak Temperature	270 C (518 F)
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Recommended Dwell Time	3 Sec (Maximum, never to exceed 5 Sec)
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Number of Heat Cycles	1
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Other Limitations

ABS Plastic Case	Maximum Case Temperature, Processing (soldering or drying): 100 C for 30 minutes 80 C for 4 hours
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Environmental

Operating Temp Range	0 to 40 C
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Operating Humidity	10 to 90% RH (non-condensing)
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Other Information

Efficiency	60% typical (@25 C, Vin – 12.0V)
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RoHS Compliant	Yes
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