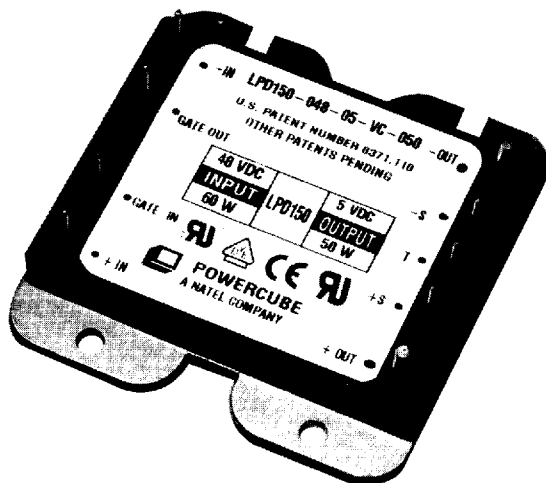


LPD150 SERIES

Key Superior Features

- Over-Temperature Protection (Thermal shutdown)
- Over-Voltage Protection
- Total Isolation (Input, Output & Base Plate)
- Up to 90% efficiency
- 375 Khz fixed frequency



Application Notes (Power ■ Pages) available

PP40 The ABC's of DC-to-DC Converters and Power Supplies
Definitions of Power Conversion Terms (12 pages)

PP41 Information for Standard Usage
Input/Output connections (8 pages)

PP42 Output Voltage Trimming (4 pages)

PP43 Basic Operations and Features (4 pages)

PP44 Connecting Multiple Converters (12 pages)

PP45 Thermal Management (8 pages)

25, 50, 75, AND 100 WATTS OUTPUT DC-TO-DC CONVERTERS

Additional Features

- Industry standard footprint
- Remote sense
- Over-current protection
- Low output ripple and noise
- 100°C Maximum Operating Temperature
- Excellent transient response
- MTBF > 1,000,000 hours (35°C, G_B)
- Trimmable output (+10%, -35%)
- UL (USA, Canada), VDE approved

Summary Typical Characteristics

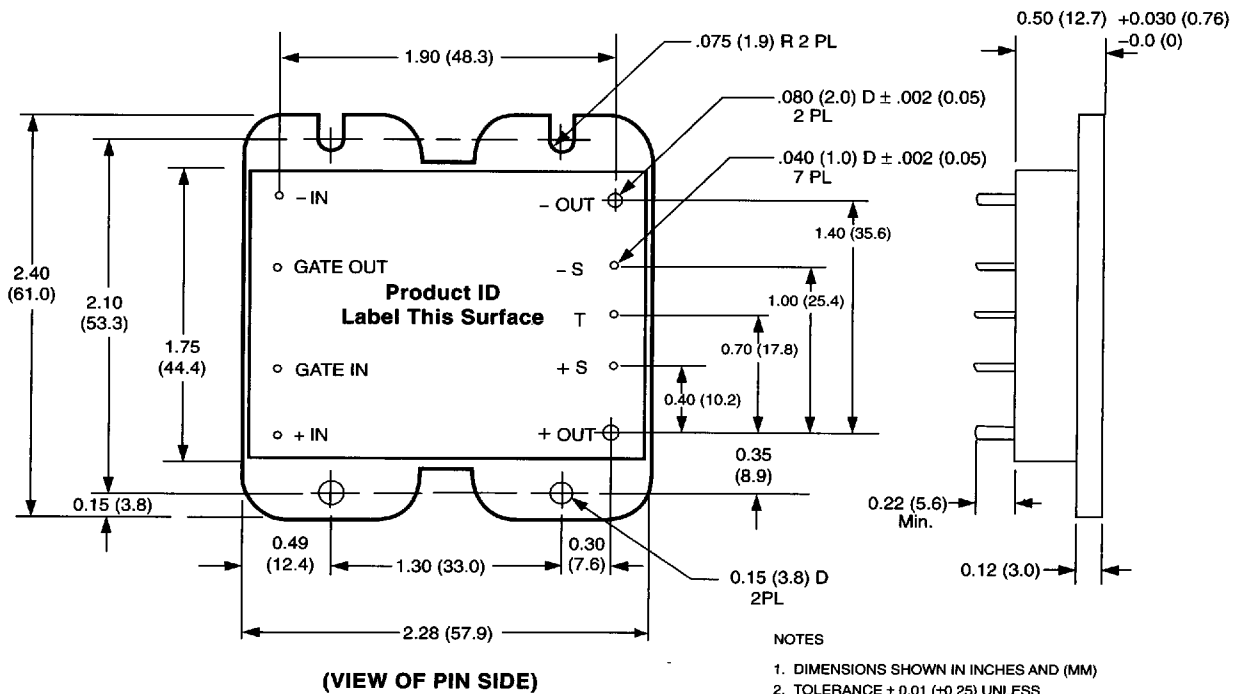
Set Point Accuracy	0.5%
Load/Line Regulation	0.05%
Output Drift with Temperature (per °C)	0.01%
Long Term Drift (per 1,000 hours)	0.2%
Switching Frequency	375 KHZ
Output Ripple - pp	1%
Output Voltage Trim Range	65 to 110%
Remote Sense Compensation	0.5V
Current Limit	130%
Short Circuit Current	145%
OVP Set Point	130%
Efficiency	80 to 90%
Input to Output Isolation	3,000 V _{RMS}
Input or Output to Baseplate	2,500 V _{RMS}
Weight	3.0 oz (85 gms)



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A NATEL COMPANY

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9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

LPD150 SERIES



MECHANICAL OUTLINE

Ordering Information

LPD150 — I	— O	— F	— G	— W
Input Voltage	Output Voltage	Footprint / Pin Out	Performance Grade	Output Wattage
024 = 24 V	03 = 3.3 V	P = Superior performance	C = Commercial (-20°C to +100°C)	025 = 25 Watts
048 = 48 V	05 = 5.0 V	V = Industry standard	I = Industrial (-40°C to +100°C)	050 = 50 Watts
150 = 150 V	12 = 12 V		M = Military (-55°C to +100°C)	075 = 75 Watts
300 = 300 V	15 = 15 V			100 = 100 Watts
	24 = 24 V			
	28 = 28 V			

Other Products

Coming Soon

- 50 to 200 Watts DC-to-DC Converters "full-brick" size (4.6"L X 2.4"W X 0.5"H).
- 300 Watts High Density, Low Profile (4.6"L X 2.4"W X 0.4"H) DC-to-DC Converters.
- High Power (600 Watts) Power Factor Corrected AC-to-DC Converter and "half-brick" size 500 Watts Universal Front-end Module AC-to-DC Converter.

Other DC-to-DC Converters available from Powercube in "half-brick" size (2.28"L X 2.4"W).

- Low Profile (0.4" height), High Density 150 Watts output DC-to-DC Converters (PD150 Series).
- 25, 50, 75, 100, 150 Watts DC-to-DC Converters with four threaded holes for additional heatsink, as well as versatile mounting (TD150 Series).



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