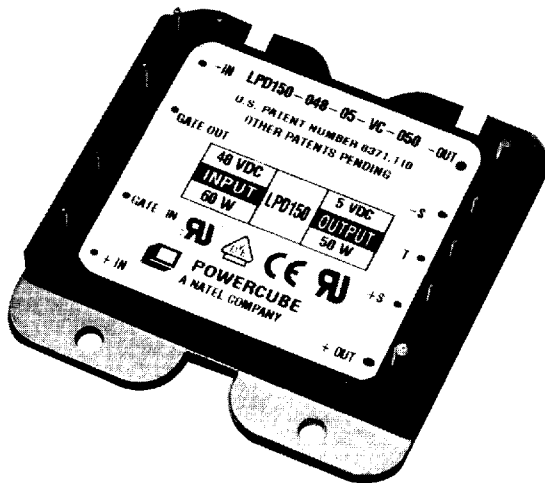


LPD150 SERIES

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

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)

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)



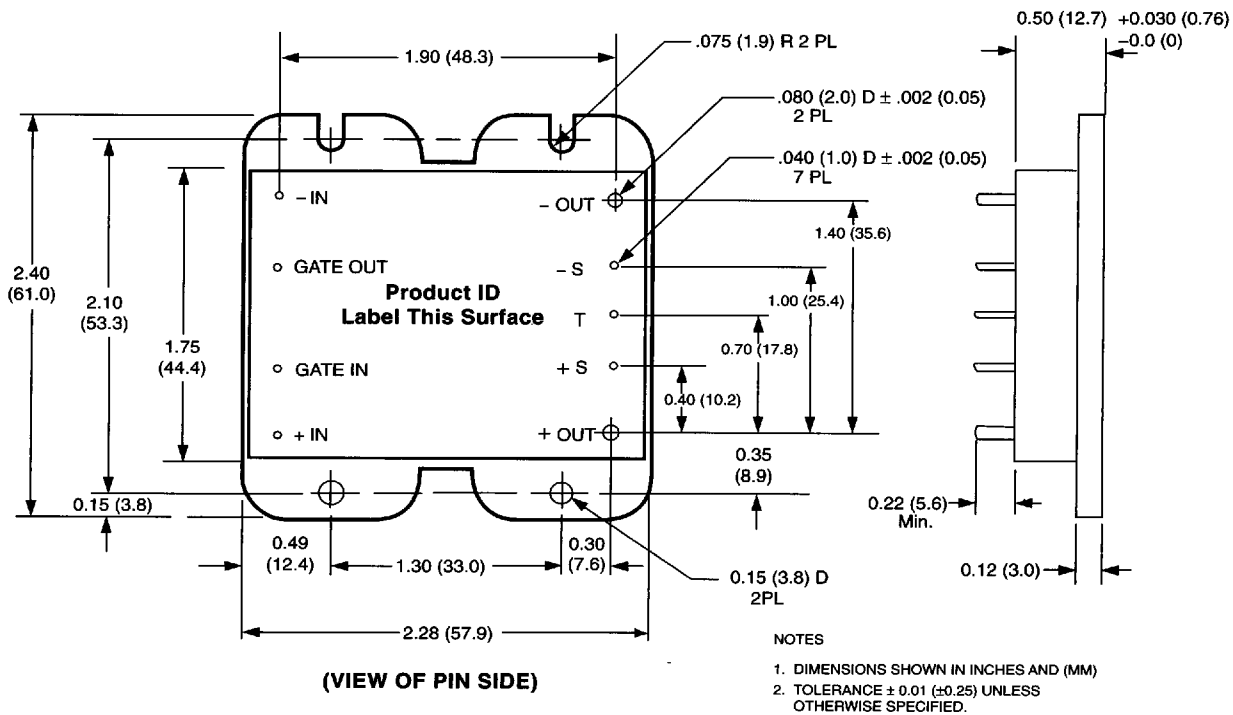
POWERCUBE
A NATEL COMPANY

TEL: 1-800-866-3590 • FAX: 1-800-866-3589

9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

■ 9348373 0000749 929 ■

LPD150 SERIES



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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