

1500LN series

8 to 15 watts



Key Features:

- Lucent™ LW010 and LW015 compatible
- Unencapsulated construction
- Single & Dual Output Models
- Industry Standard 1" x 2" x 0.375" Footprint

Ideally Suited For:

- Telecom equipment
- Mixed analog/digital subsystems
- Distributed power networks

Input Characteristics

Input Voltage Range:	36-75 VDC
Input Under Voltage Shutdown:	33 VDC
Input Filtering:	L-C Network
Efficiency:	See Available Models Chart
No Load Input Current:	10mA

Output Characteristics

Output Voltage Accuracy:	+/-1%
Total Error Band:	+/-2% Max. (Singles), +/-3% Max. (Duals)
Voltage Balance:	+/-2%, Dual Output Models only
Minimum Load Requirements:	0% (Single Output), 10% (Dual Output)
Line Regulation:	+/-0.5% Low Line to High Line
Load Regulation:	+/-0.5% (Singles), +/-1.0% (Duals) Min Load to Full Load
Ripple and Noise:	50mV or 1% pk-pk, 20MHz Bandwidth
Transient Response/Recovery Time:	200µS, 25% Load Step
Temperature Coefficient:	+/-0.02% / °C
Short Circuit Protection:	Continuous (Hiccup Mode)
Over Voltage Protection:	Standard

Environmental Characteristics

Operating Temperature Range (Ambient):	-40°C to +85°C, See 1500LN Series Data Sheet for Derating curves.
Storage Temperature Range:	-55°C to +125°C
Maximum Case Temperature:	105°C Baseplate
Humidity:	Up to 95%, Non-condensing
Vibration:	5Grms, 5Hz to 2KHz
Reliability (MTBF per Mil-HDBK-217F):	>1.46 million hours, +25°C, Ground Benign
Demonstrated MTBF:	>5 million hours at +40°C

General Characteristics

Switching Frequency:	400KHz, Fixed
Isolation (Input to Output):	1500VDC minimum (1 minute)
Isolation Capacitance:	1200pF
Weight:	0.57 oz (16g)
Case Material:	Aluminum baseplate with black anodized aluminum case
Agency Approvals:	UL, CSA, TUV and CE (LVD, 48 Vin Models)

Distributed By:
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Additional Features

Remote Shutdown (Designated by optional "-R" suffix)

Supply On:	Open or >3.5 VDC
Supply Off:	<0.8 VDC

Negative Logic enable, use "-1" suffix

Positive Logic enable, use "-4" suffix

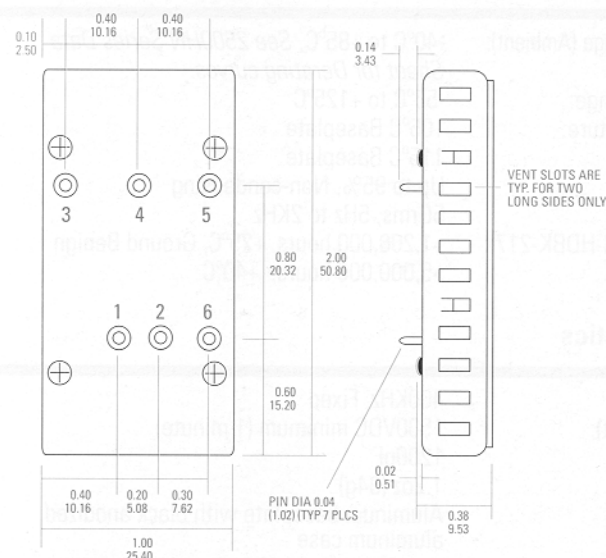
Output Voltage Trim feature, use a "-9" suffix

Available Models

Model	Nominal Input Voltage (VDC)	Input Voltage Range (VDC)	Output Voltage (VDC)	Max. Output Current (mA)	Efficiency @ Full-Load (%)
1502V0S48LN	48	36-75	2.0	4000	74
1503V3S48LN	48	36-75	3.3	3500	81
1505S48LN	48	36-75	5.0	3000	84
1512S48LN	48	36-75	12.0	1250	88
1515S48LN	48	36-75	15.0	1000	90
1505D48LN	48	36-75	+/-5.0	+/-1800*	84
1512D48LN	48	36-75	+/-12.0	+/-750*	87
1515D48LN	48	36-75	+/-15.0	+/-600*	88

*Total output power not to exceed 15W

Outline Drawing



Pinout Chart

Pin	Single	Duals
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	**Trim	COMMON
5	-Vout	-Vout
6	*REMOTE ON/OFF	*REMOTE ON/OFF

* For Negative logic, Add "-1" suffix

For Positive logic, Add "-4" suffix

** Optional, for output trim, Add "-9" suffix

All specifications are typical at 25 degrees C with nominal input voltage and full output unless otherwise noted. Specifications are subject to change without notice. All dimensions are typical.