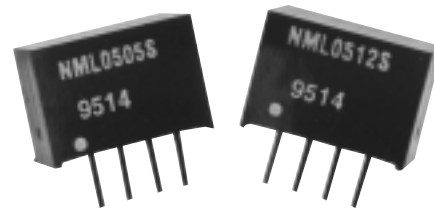


International Power Sources, Inc.

260 Hopping Brook Road
 Holliston, Massachusetts 01746
 Tel. (508) 429-4440 Fax (800) 226-2100
<http://www.intlpower.com>

DC/DC Converters



NML SERIES 2 WATT

FEATURES

- 0.17 in² board space
- 85% Efficiency
- 30 Watts per in³
- 5 VDC, 12 VDC Inputs
- SIP Packaging
- 1000 VDC Isolation

MODELS CHART

OUTPUT VOLTAGE	OUTPUT CURRENT	PART NUMBERS	
		5VDC INPUT	12VDC INPUT
5VDC	400mA	NML0505S	NML1205S
9VDC	222mA	NML0509S	NML1209S
12VDC	167mA	NML0512S	NML1212S
15VDC	133mA	NML0515S	NML1215S

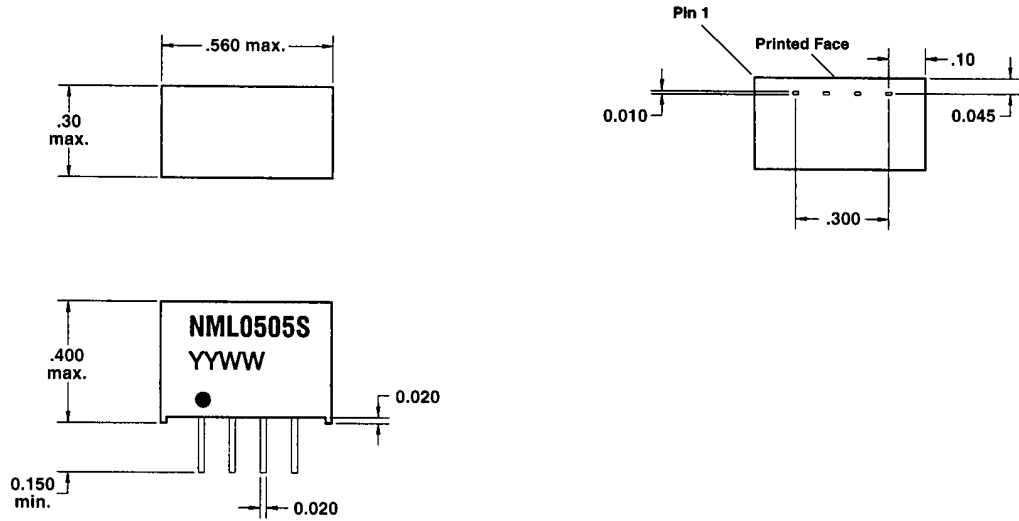
ELECTRICAL SPECIFICATIONS

All specifications typical at nominal line, full load and 25°C

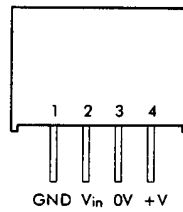
Input voltage range	±10%
Input reflected noise (20MHz BW) 5VDC input	150mV p-p
(20MHz BW) 12VDC input	300mV p-p
Output voltage accuracy	±5%
Line regulation (10% to 100% Load)	1.2%/1% of Vin
Load regulation (10% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	200mV p-p max.
Efficiency at full load, 9V, 12V and 15V outputs	85% typical, 75% min.
Efficiency at full load, 5V outputs	80% typical, 70% min.
Short circuit protection	1 second max.
Switching frequency at full load (typical)	75 KHz
Input output isolation	1000VDC
Temperature coefficient	0.03% per °C max.
Operating temperature range	-50°C to 125°C
	0°C to 70°C (no derating)
Storage temperature range	-55°C to 125°C

Specifications subject to change. Unit requires 10mm of air space.

MECHANICAL SPECIFICATIONS

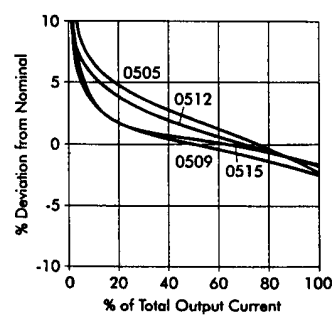
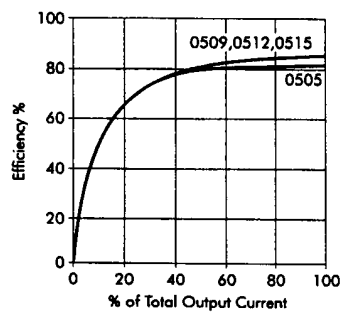


PIN CONNECTIONS



OUTPUT CHARACTERISTICS

NML05 series



NML12 series

