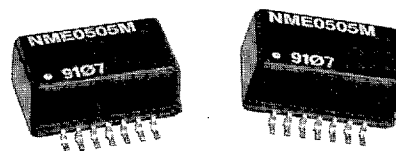


**International
Power Sources, Inc.**

200 Butterfield Drive
Ashland, Massachusetts 01721
Tel. (508) 881-7434 Fax (800) 226-2100

DC/DC Converters Surface Mount



NMA/NME SERIES 1 WATT

FEATURES

- Surface Mountable
- Gull-Wing Packaging
- Reflow to 280°C
- -50°C to 125°C Operation
- 27 Watts per in³
- 80% Efficiency
- 1000 VDC Isolation
- 0.15 in² board space

MODELS CHART

NMA SERIES

OUTPUT VOLTAGES	OUTPUT CURRENTS	PART NUMBERS	
		5VDC INPUT	12VDC INPUT
±5VDC	±100mA	NMA0505TM	NMA1205TM
±9VDC	±56mA	NMA0509TM	NMA1209TM
±12VDC	±42mA	NMA0512TM	NMA1212TM
±15VDC	±34mA	NMA0515TM	NMA1215TM

NME SERIES

OUTPUT VOLTAGE	OUTPUT CURRENT	PART NUMBERS	
		5VDC INPUT	12VDC INPUT
5VDC	200mA	NME0505TM	NME1205TM
9VDC	110mA	NME0509TM	NME1209TM
12VDC	84mA	NME0512TM	NME1212TM
15VDC	67mA	NME0515TM	NME1215TM

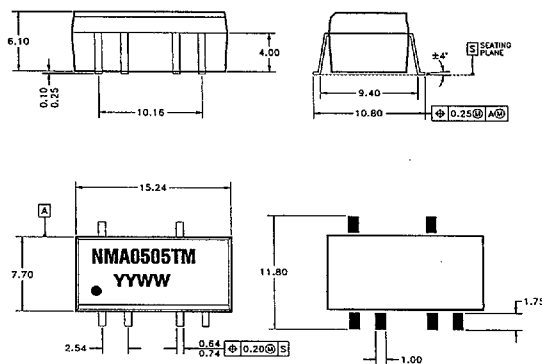
Specifications subject to change. Unit requires 10mm of air space.

ELECTRICAL SPECIFICATIONS

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

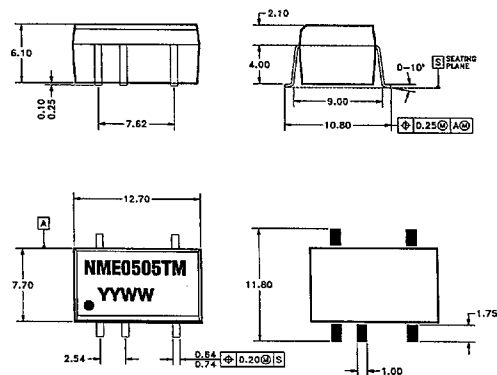
Input voltage range	±10%
Input reflected noise (20MHz BW)	180mV p-p max.
Output voltage accuracy	±5%
Line regulation (10% to 100% Load)	1.2%/1% of Vin
Load regulation (10% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	150mV p-p max.
Efficiency at full load, 9V, 12V and 15V outputs	75% typical, 70% min.
Efficiency at full load, 5V outputs	70% typical, 65% min.
Total output power (any output)	1 watt
Short circuit protection	1 second max.
Switching frequency	135 KHz
Input output isolation	1000VDC (1000 megohms) min.
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 110°C

MECHANICAL SPECIFICATIONS



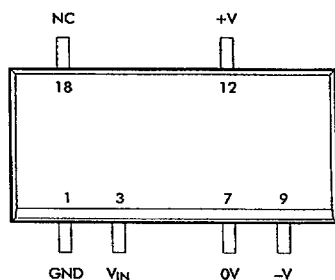
RECOMMENDED
FOOTPRINT DETAILS

MILLIMETRES XXXX±0.25

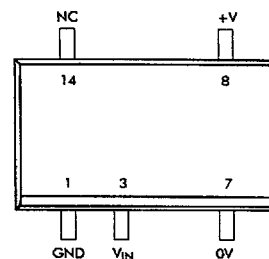


RECOMMENDED
FOOTPRINT DETAILS

PIN CONNECTIONS



NMA
18 PIN SMD (TOP VIEW)



NME
14 PIN SMD (TOP VIEW)