

**International
Power Sources, Inc.**

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DC/DC Converters Surface Mount



NMA/NME SERIES 1 WATT

FEATURES

- Surface Mountable
- J-Lead/Gull-Wing Packaging
- Reflow to 280°C
- -50°C to 125°C Operation
- 31 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	24VDC INPUT	48VDC INPUT
±5VDC	±100mA	NMA0505M	NMA1205M	NMA2405M	NMA4805M
±9VDC	±56mA	NMA0509M	NMA1209M	NMA2409M	NMA4809M
±12VDC	±40mA	NMA0512M	NMA1212M	NMA2412M	NMA4812M
±15VDC	±30mA	NMA0515M	NMA1215M	NMA2415M	NMA4815M

NME SERIES

OUTPUT VOLTAGE	OUTPUT CURRENT	PART NUMBERS		
		5VDC INPUT	12VDC INPUT	24VDC INPUT
5VDC	200mA *	NME0505M	NME1205M	NME2405M
9VDC	110mA	NME0509M	NME1209M	NME2409M
12VDC	84mA	NME0512M	NME1212M	NME2412M
15VDC	67mA	NME0515M	NME1215M	NME2415M

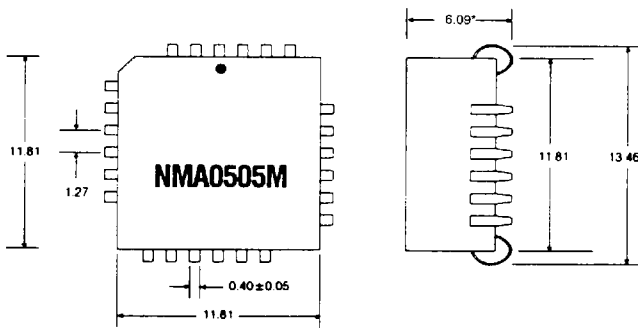
*160mA on 5VDC Input

ELECTRICAL SPECIFICATIONS

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

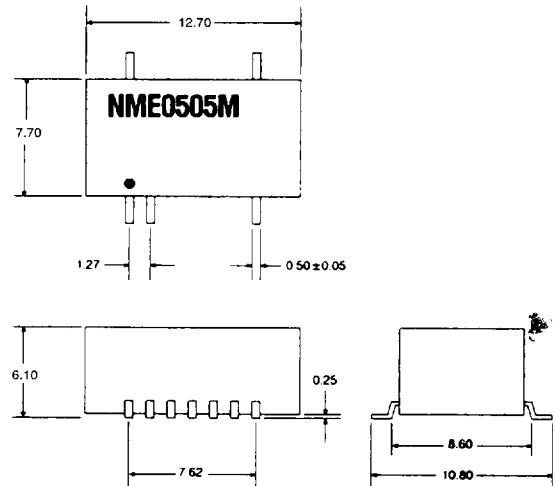
Input voltage range	±10%
Input reflected noise (20MHz BW)	90mV p-p max.
Output voltage accuracy	±5%
Line regulation (10% to 100% Load)	1.2%/1% of V_{in}
Load regulation (10% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	NMA/NME-75/150mV p-p max.
Efficiency at full load, 9V, 12V and 15V outputs	80% 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	100 KHz
Input output isolation	1000VDC (1000 megohms) min.
Temperature coefficient	0.03% per °C max.
Operating temperature range	-50°C to 85°C (no derating)
Storage temperature range	-55°C to 110°C

MECHANICAL SPECIFICATIONS

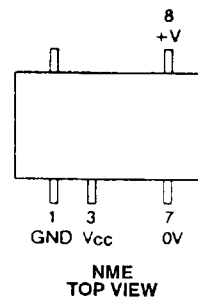
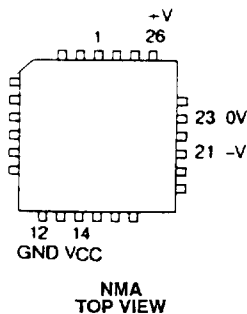


* 48VDC Input-8.1 mm

MILLIMETRES XXXX±0.25



PIN CONNECTIONS



Specifications subject to change