

UM400NR SERIES

5 to 9 Watt DC-DC Converters

Cost-Effective Models

75% Efficiency

Unregulated Outputs

Pi Input Filter

500 VDC Isolation

SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

OUTPUT SPECIFICATIONS

| | |
|------------------------------------|----------------|
| Voltage Accuracy | ±3.0% max. |
| Ripple and Noise, 20MHz BW | 100mV P-P max. |
| Line Regulation ¹ | ±1.2% |
| Load Regulation ² | ±10% |

GENERAL SPECIFICATIONS

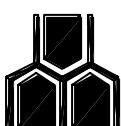
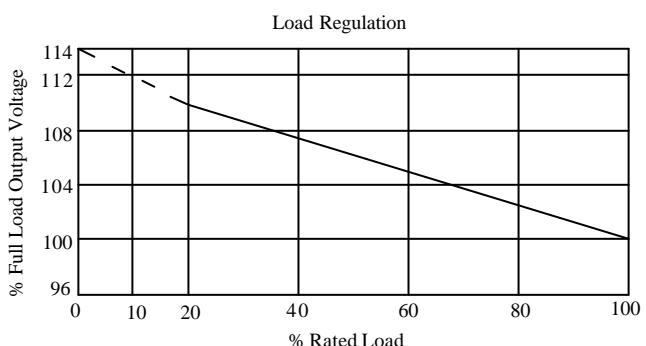
| | |
|---|---|
| Efficiency | 50% |
| Isolation Voltage | 500 VDC min. |
| Isolation Capacitance | 180pF |
| Isolation Resistance | 10 ⁸ Ohms min. |
| Switching Frequency | 50 KHz min. |
| Operating Temperature Range Ambient, None Derating | -25°C to +71°C |
| Cooling | Free Air Convection |
| Storage Temperature Range | -40°C to +100°C |
| Dimensions CASE C | 2*2*0.4 inches (50.8*50.8*10.2mm) |
| Case Material ,..... | Non-Conductive Black Plastic UL94V-0 |
| Weight | 46g |

NOTES

1. Per 1% change in input voltage.
2. For a load change from 100% to 20%.

INPUT SPECIFICATIONS

Input Voltage Range ±10%
Reflected Ripple Current,20MHz BW 75mA P-P
Input Filter Pi Network



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| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT | | CASE | ALT ¹ PIN OUT | MAXIMUM CAPACTIVE LOAD |
|--------------|---------------|----------------|----------------|---------------|-----------|------|--------------------------|------------------------|
| | | | | NO LOAD | FULL LOAD | | | |
| UM401NR | 5 VDC | 5 VDC | 1000mA | 120mA | 1240mA | C | S | 1000uF |
| UM402NR | | 12 VDC | 600mA | 125mA | 1820mA | | | 600uF |
| UM403NR | | 15 VDC | 500mA | 125mA | 1820mA | | | 500uF |
| UM404NR | | ± 12 VDC | ± 375mA | 150mA | 2160mA | | | ± 375uF |
| UM405NR | | ± 15 VDC | ± 300mA | 150mA | 2160mA | | | ± 300uF |
| UM406NR | 12 VDC | 5 VDC | 1000mA | 35mA | 500mA | C | S | 1000uF |
| UM407NR | | 12 VDC | 600mA | 50mA | 730mA | | | 600uF |
| UM408NR | | 15 VDC | 500mA | 50mA | 730mA | | | 500uF |
| UM409NR | | ± 12 VDC | ± 375mA | 60mA | 880mA | | | ± 375uF |
| UM410NR | | ± 15 VDC | ± 300mA | 60mA | 880mA | | | ± 300uF |

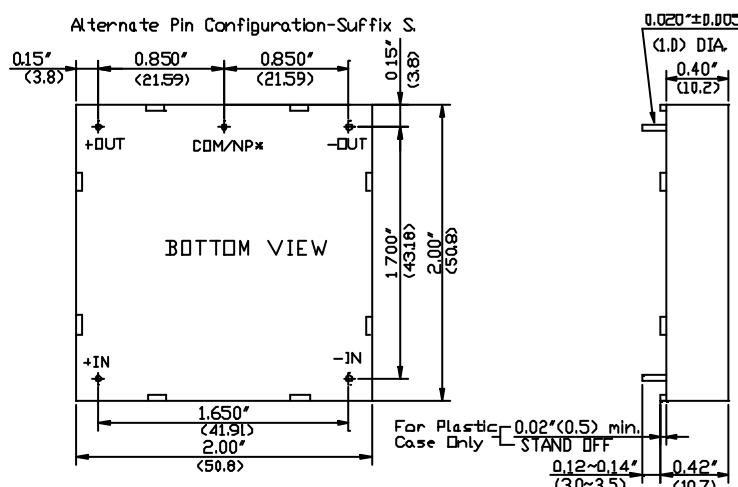
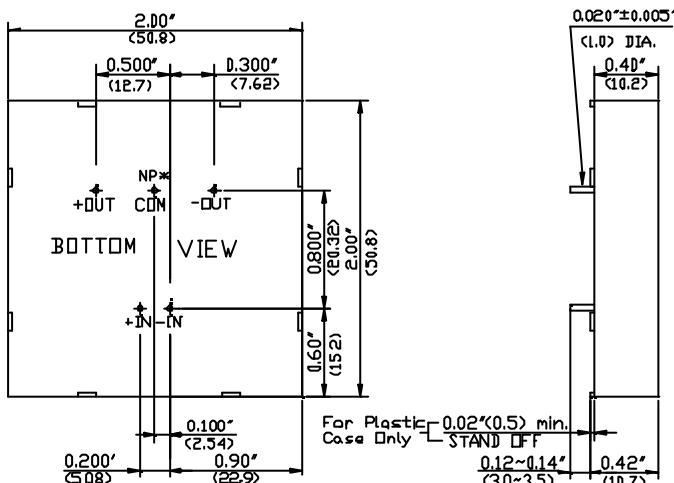
NOTE:

1. Alternate pin-out version. To order, suffix an "S" to the model number.

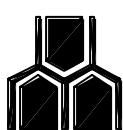
For example, UM401NRS, UM408NRS. See case drawing below.

CASE C

Standard Pin Configuration



NP*(NO PIN)ON SINGLE OUTPUT MODELS
All dimensions in inches(mm).
Tolerance .xx =±0.02
.xxx =±0.010



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