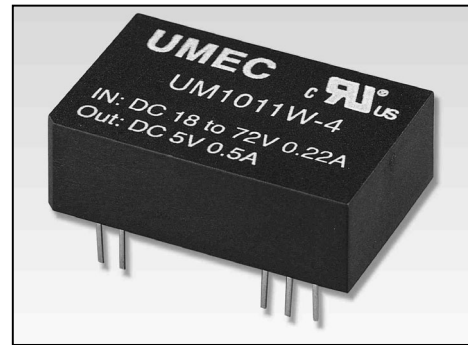


UM1000W-4 SERIES

3 Watt DC/DC Converters

- ◆ Utilizes Surface Mount Technology
- ◆ 4:1 Input Range
- ◆ 7.5 Watts/Cubic Inch
- ◆ Efficiency to 80%
- ◆ 200KHz Switching Frequency
- ◆ Continuous Short Circuit Protection



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 24V 9-36V
48V 18-72V
Input Filter Pi Type



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OUTPUT SPECIFICATIONS

Voltage Accuracy, Single Output $\pm 2\%$ max.
Dual +Output $\pm 2\%$ max.
- Output $\pm 2\%$ max.
Voltage Balance, Dual Output at Balance Load
..... $\pm 1.0\%$ max.
Transient Response
Single, 25% Step Load Change $<500\mu$ sec.
Dual, FL-1/2FL, $\pm 1\%$ Error Band $<500\mu$ sec.
Ripple and Noise, 20MHz BW
Single 100mV p-p max.
Duals 100mV p-p max.
Temperature Coefficient $\pm 0.02\%/^{\circ}\text{C}$ max.
Line Regulation¹ $\pm 0.5\%$ max.
Load Regulation² Single Output $\pm 1.0\%$ max.
Duals Output $\pm 1.0\%$ max.
Short Circuit Protection Continuous

GENERAL SPECIFICATIONS

Efficiency see Table
Isolation Voltage 1500 VDC min.
Isolation Resistance 10^8 Ohms min.
Isolation Capacitance 1000pF
Switching Frequency 200KHz typ.
Operating Temperature Range
Ambient, None Derating -40°C to $+75^{\circ}\text{C}$
Case Temperature 100°C max.
Cooling Free Air Convection
Storage Temperature Range -40°C to $+125^{\circ}\text{C}$
Dimensions Case A 1.25*0.80*0.40 inches
(31.8*20.3*10.2 mm)
Case Material Non-Conductive Black Plastic
Weight 15g

NOTES

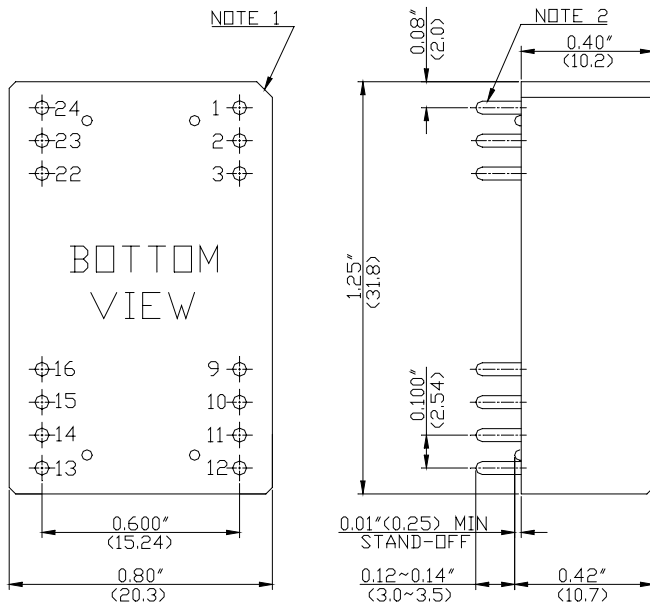
1. Measured from high line to low line.
2. Measured from full load to no load, dual outputs loaded equally.

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| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT | | % | REGULATION | | CASE |
|--------------|---------------|----------------|----------------|---------------|-----------|----|------------|-------|------|
| | | | | NO LOAD | FULL LOAD | | TYP | LINE | |
| UM1001W-4 | 24 VDC | 5 VDC | 500mA | 15mA | 130mA | 80 | 0.5% | 1.0% | A |
| UM1002W-4 | | 12 VDC | 250mA | 15mA | 157mA | 80 | 0.5% | 1.0% | |
| UM1003W-4 | | 15 VDC | 200mA | 15mA | 157mA | 80 | 0.5% | 1.0% | |
| UM1004W-4 | | ±5 VDC | ±250mA | 15mA | 130mA | 80 | ±0.5% | ±1.0% | |
| UM1005W-4 | | ±12 VDC | ±125mA | 20mA | 157mA | 80 | ±0.5% | ±1.0% | |
| UM1006W-4 | | ±15 VDC | ±100mA | 20mA | 157mA | 80 | ±0.5% | ±1.0% | |
| UM1009W-4 | | 3.3VDC | 500mA | 15mA | 93mA | 74 | 0.5% | 1.0% | |
| UM1011W-4 | 48 VDC | 5 VDC | 500mA | 10mA | 65mA | 80 | 0.5% | 1.0% | A |
| UM1012W-4 | | 12 VDC | 250mA | 10mA | 78mA | 80 | 0.5% | 1.0% | |
| UM1013W-4 | | 15 VDC | 200mA | 10mA | 78mA | 80 | 0.5% | 1.0% | |
| UM1014W-4 | | ±5 VDC | ±250mA | 10mA | 65mA | 80 | ±0.5% | ±1.0% | |
| UM1015W-4 | | ±12 VDC | ±125mA | 10mA | 78mA | 80 | ±0.5% | ±1.0% | |
| UM1016W-4 | | ±15 VDC | ±100mA | 10mA | 78mA | 80 | ±0.5% | ±1.0% | |
| UM1019W-4 | | 3.3VDC | 500mA | 10mA | 46mA | 74 | 0.5% | 1.0% | |

| MODEL NUMBER | UM 1001W-4 | UM 1002W-4 | UM 1003W-4 | UM 1004W-4 | UM 1005W-4 | UM 1006W-4 | UM 1009W-4 | UM 1011W-4 | UM 1012W-4 | UM 1013W-4 | UM 1014W-4 | UM 1015W-4 | UM 1016W-4 | UM 1019W-4 |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MAXIMUM CAPACITIVE LOAD ¹ (uF) | 56 | 27 | 22 | ±27 | ±15 | ±10 | 56 | 470 | 220 | 150 | ±220 | ±100 | ±68 | 470 |

Note: 1. Maximum capacitive load Across the each output ports should not be over following indicated value.



| PIN CONNECTIONS | | |
|-----------------|---------------|-------------|
| | Single Output | Dual Output |
| 1 | NP* | NP* |
| 2 | -V Input | -V Input |
| 3 | -V Input | -V Input |
| 9 | NC* | Common |
| 10 | NC* | NC* |
| 11 | NC* | -V Output |
| 12 | NP* | NP* |
| 13 | NP* | NP* |
| 14 | +V Output | +V Output |
| 15 | NC* | NC* |
| 16 | - V Output | Common |
| 22 | +V Input | +V Input |
| 23 | +V Input | +V Input |
| 24 | NP* | NP* |

*NC: No Connection.

*NP: No Pin

All dimensions in inches (mm).

Note 1: Cut-corner marking for Pin No.1

Note 2: Pin size is 0.020±0.005 inches (0.5mm) dia.
or 0.020*0.012 inch

Note 3: Tolerance .xx=±0.04"

.xxx=±0.010"



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