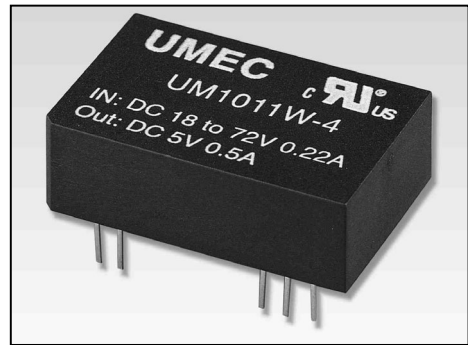


UMEC International Corporation

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

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 <500u sec.
Dual, FL-1/2FL, $\pm 1\%$ Error Band <500u 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°C
Case Temperature 100°C max.
Cooling Free Air Convection
Storage Temperature Range -40°C to +125°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.



UMEC International Corporation
2539 West 237th Street, Suite A
Torrance, California 90505 USA

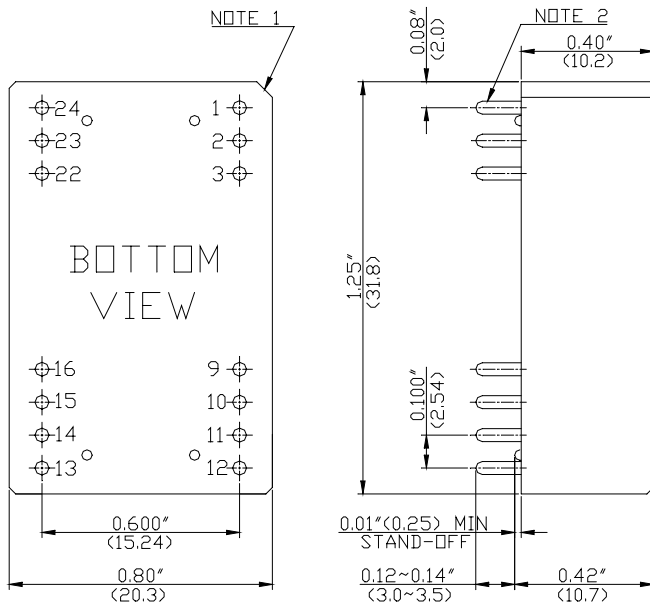
www.umecintl.com
Tel: 310-326-7072
Fax: 310-326-7058

UMEC International Corporation

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"



UMEC International Corporation
2539 West 237th Street, Suite A
Torrance, California 90505 USA

www.umecintl.com
Tel: 310-326-7072
Fax: 310-326-7058