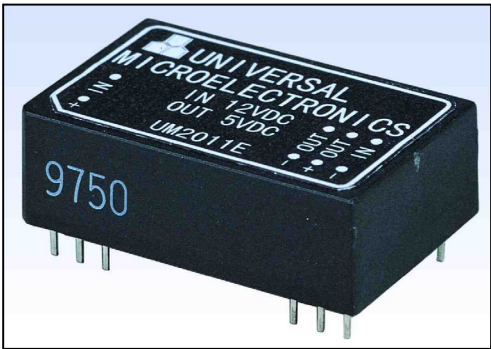


UM2000E SERIES

3.3 - 5 Watt DC/DC Converters

- ◆ 24 Pin Dip Package
- ◆ High Efficiency (up to 80%)
- ◆ Regulated Outputs
- ◆ Pi Input Filter
- ◆ 500 VDC Isolation
- ◆ Continuous Short Circuit Protection



SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

Voltage Accuracy	±2.0% max.
Ripple and Noise, 20MHz BW ¹ , 5V	100mVp-p max.
3.3V	75mVp-p max.
Temperature Coefficient	±0.05%/°C
Short Circuit Protection	Continuous
Line Regulation ²	±0.5%
Load Regulation ³	±0.5%

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Resistance	10 ⁸ ohms min.
Switching Frequency	100 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 A	1.25*0.8*0.4 inches (31.8*20.3*10.2mm)
Case Material	
Standard Models	Non-Conductive Black Plastic UL94V-0
Weight	15g

INPUT SPECIFICATIONS

Input Voltage Range, 12V	9-18V
24V	18-36V
Input Filter	Pi Network

NOTES:

1. Measured with 1uF ceramic capacitor connect to output pins.
2. Measured from high line to low line.
3. Measured from full load to 10% load.
4. This converter require a minimum 10% loading on their output to maintain specified regulation. Operation under no-load conditions will not damage these devices; however they may not meet all listed specifications.



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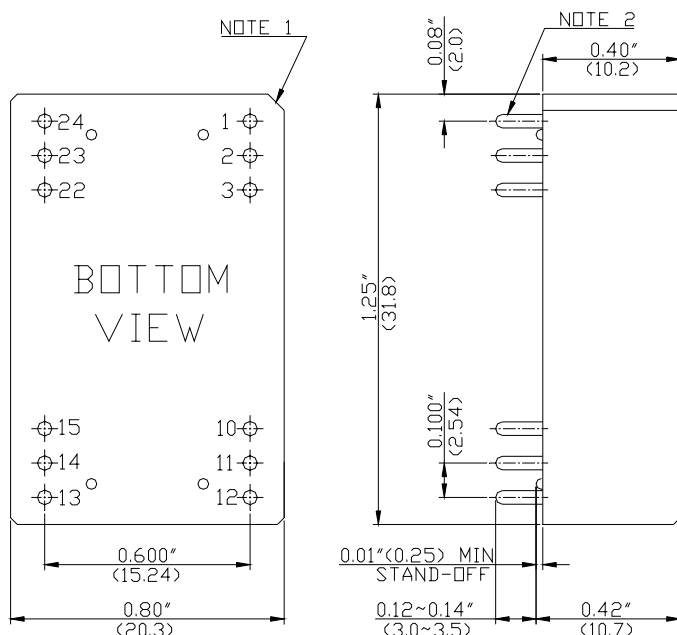
32539 W. 237TH STREET, SUITE A,
TORRANCE, CA 90505
TEL: (310) 326-7072 FAX: (310) 326-7058

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	EFFICIENCY
				NO LOAD	FULL LOAD		
UM2011E	12 VDC	5 VDC	1000 mA	50 mA	535 mA	A	78%
UM2021E	24 VDC	5 VDC	1000 mA	35 mA	260 mA	A	80%
UM2029E	24 VDC	3.3 VDC	1000 mA	35 mA	176 mA	A	77%

MODEL NUMBER	UM2011E UM2021E UM2029E
MAXIMUM ¹ CAPACITIVE LOAD (uF)	220

NOTE:1.Maximum capacitive load across the output ports should not be over following indicated values.

CASE A



Pin Connections	
Pin	Single Output
1	+V Input
2	NC*
3	NC*
10	-V Output
11	+V Output
12	-V Input
13	-V Input
14	+V Output
15	-V Output
22	NC*
23	NC*
24	+V Input

* NC (No Connection)

All dimensions in inches (mm).

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

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

Or 0.020*0.012 inch

Note 3: Tolerance .xx =±0.04"

.xxx=±0.010"



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