

UM2000E SERIES

5 Watt DC/DC Converter

- 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.

INPUT SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 2.0\%$ max.
Ripple and Noise, 20MHz BW¹, 5V 100mVp-p max.
Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$
Short Circuit Protection Continuous
Line Regulation² $\pm 0.5\%$
Load Regulation³ $\pm 0.5\%$

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

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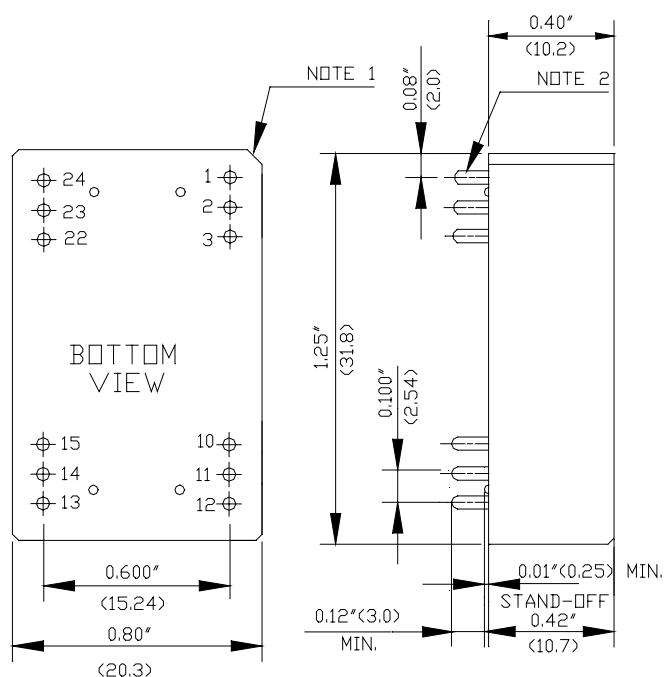
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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	EFFICIENCY
				NO LOAD	FULL LOAD		
UM2011E	12 VDC	5 VDC	1000 mA	50 mA	535 mA	A	78%
UM2021E	24 VDC	5 VDC	1000 mA	35 mA	260 mA	A	80%

MODEL NUMBER	UM2011E UM2021E
MAXIMUM ¹ CAPACITIVE LOAD	220uF

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 inch(0.5mm) dia.

Or 0.020*0.012 inch

Note 3: Tolerance .xx =±0.02

.xxx=±0.010



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