

UM2600 SERIES

5 Watt DC-DC Converters

- ◆ Small 2" x 1" x 0.4" Package
- ◆ Linear Regulated Outputs
- ◆ Pi Input Filter
- ◆ Low Output Noise
- ◆ Six-Sided Metal EMI Shield
- ◆ RoHS Compliant



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 5V	4.65-5.25V
12V	10.8-13.2V
Input Filter	Pi Network

OUTPUT SPECIFICATIONS

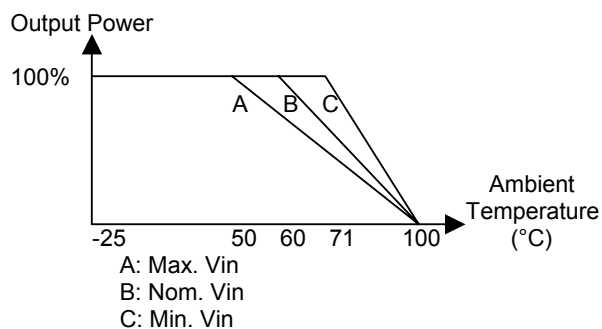
Voltage Accuracy	±1% max.
Voltage Balance, Dual Output	±0.5% max.
Temperature Coefficient	±0.03%/°C max.
Ripple and Noise, 20MHz BW	
Single Output	40mV P-P max.
Dual Output	30mV P-P max.
Single and Dual Output	5mV RMS max.
Short Circuit Protection	Short Time
Line Regulation ¹	±0.5% max.
Load Regulation ²	±0.5% max.

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Capacitance	80pF
Isolation Resistance	10 ⁸ ohms min.
Switching Frequency	20KHz. min.
Operating Temperature Range	-25°C to +71°C
Ambient Temperature	See NOTE 3
Cooling	Free-Air Convection
Storage Temperature Range	-40°C to +100°C
EMI/RFI	Six-Sided Continuous Shield
Dimensions	2*1*0.4 inches (50.8*25.4*10.2mm)
Case Material	Black-Coated Copper with Non-Conductive Base
Weight	30g

NOTES:

1. Measured from high line to low line.
2. Measured from full load to no load, dual outputs loaded equally.
3. Operating limits and output power range:

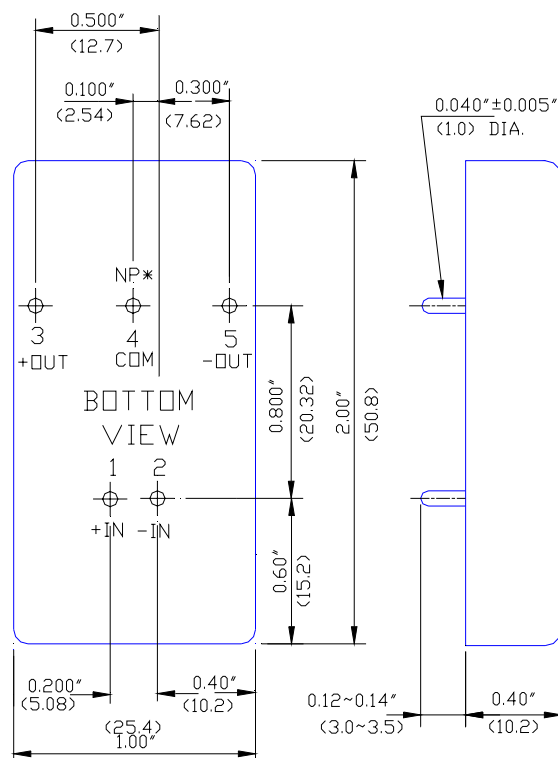


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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	CASE
				NO LOAD	FULL LOAD		
UM2601	5VDC	5 VDC	1000 mA	60 mA	1565 mA	64	B
UM2602		12 VDC	420 mA	70 mA	1505 mA	67	
UM2603		15 VDC	350 mA	70 mA	1500 mA	70	
UM2604		± 12 VDC	± 150 mA	130 mA	1140 mA	63	
UM2605		± 15 VDC	± 150 mA	130 mA	1390 mA	65	
UM2611	12VDC	5 VDC	1000 mA	40 mA	650 mA	64	B
UM2612		12 VDC	420 mA	40 mA	600 mA	70	
UM2613		15 VDC	350 mA	40 mA	620 mA	71	
UM2614		± 12 VDC	± 150 mA	60 mA	465 mA	65	
UM2615		± 15 VDC	± 150 mA	60 mA	580 mA	65	

CASE B



*NP (No Pin) On Single Output Models

All dimensions in inches (mm).

Tolerance .xx = ±0.04"

.xxx = ±0.010"



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