

UM400 SERIES

5 to 6 Watt DC/DC Converters

- High Performance
- Regulated Outputs
- Pi Input Filter
- 60% Efficiency
- Six-Sided Shield

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range See Table
Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 1.0\%$ max.
Voltage Balance, Dual Output $\pm 0.5\%$
Temperature Coefficient
Single Output $\pm 0.02\%/^{\circ}\text{C}$
Dual Output $\pm 0.01\%/^{\circ}\text{C}$
Ripple and Noise¹, 20MHz BW
Single Output 50mV P-P max.
Dual Output 35mV P-P max.
Short Circuit Protection Current Limit
Line Regulation $\pm 0.02\%$
Load Regulation $\pm 0.2\%$

GENERAL SPECIFICATIONS

Efficiency 60%
Isolation Voltage 500 VDC min.
Isolation Capacitance 80pF
Isolation Resistance 10^8 ohms min.
Switching Frequency 20 KHz min.
Operating Temperature Range
Ambient, None Derating -25°C to $+71^{\circ}\text{C}$
Cooling Free Air Convection
Storage Temperature Range -40°C to $+100^{\circ}\text{C}$
EMI/RFI² Six-Sided Continuous Shield
Dimensions 2*2*0.4 inches
(50.8*50.8*10.2mm)

Case Material

Standard Models Non-Conductive Black Plastic
UL94V-0
Suffix "M" Models Black-Coated Copper with
Non-Conductive Base

Weight 46g

Input Voltage	60% FL	80% FL	100% FL
5V	4.4-6.5V	4.5-6.0V	4.65-5.5V
12V	10.56-15.6V	10.8-14.4V	11.16-13.2V
24V	21.12-31.2V	21.6-28.8V	22.32-26.4V
28V	24.64-36.4V	25.2-33.6V	26.04-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V

NOTE:

1. Measured with 0.1uF ceramic capacitor connected to the output pins.
2. Metal case only.



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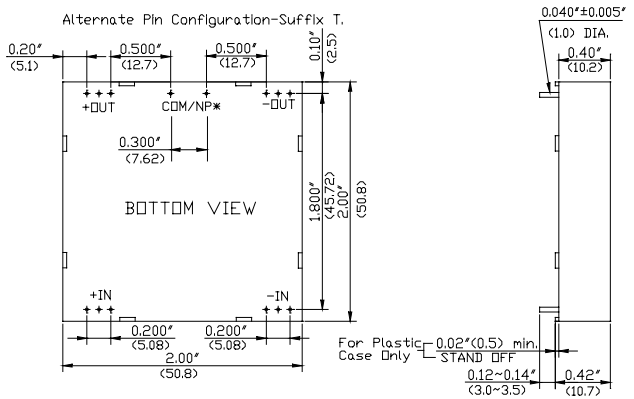
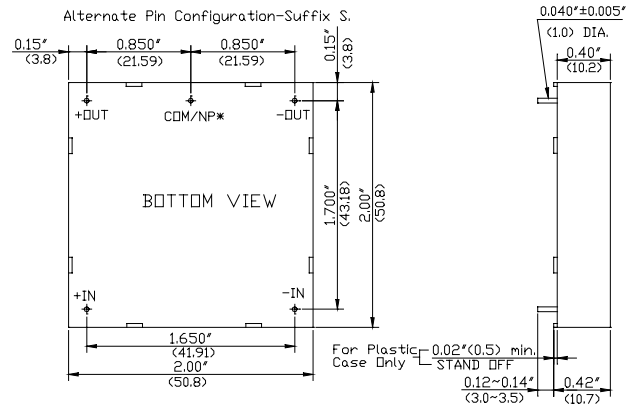
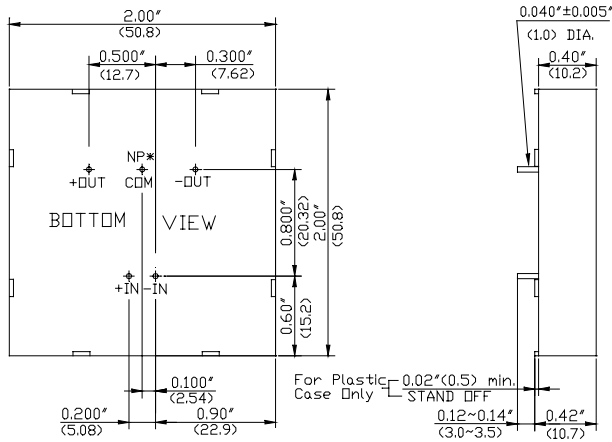
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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	ALT ¹ PIN OUT
				NO LOAD	FULL LOAD		
UM401	5 VDC	5 VDC	1000mA	60mA	1650mA	C	S, T
UM402		12 VDC	470mA	80mA	1750mA		
UM403		15 VDC	400mA	85mA	1800mA		
UM404		± 12 VDC	± 230mA	130mA	1700mA		
UM405		± 15 VDC	± 190mA	130mA	1700mA		
UM406	12 VDC	5 VDC	1000mA	40mA	690mA	C	S, T
UM407		12 VDC	470mA	50mA	710mA		
UM408		15 VDC	400mA	40mA	750mA		
UM409		± 12 VDC	± 230mA	60mA	710mA		
UM410		± 15 VDC	± 190mA	60mA	710mA		
UM411	24 VDC	5 VDC	1000mA	25mA	350mA	C	S, T
UM412		12 VDC	470mA	25mA	360mA		
UM413		15 VDC	400mA	25mA	370mA		
UM414		± 12 VDC	± 230mA	25mA	360mA		
UM415		± 15 VDC	± 190mA	35mA	360mA		
UM416	28 VDC	5 VDC	1000mA	25mA	290mA	C	S, T
UM417		12 VDC	470mA	25mA	300mA		
UM418		15 VDC	400mA	25mA	310mA		
UM419		± 12 VDC	± 230mA	30mA	300mA		
UM420		± 15 VDC	± 190mA	30mA	300mA		
UM421	48 VDC	5 VDC	1000mA	20mA	170mA	C	S, T
UM422		12 VDC	470mA	20mA	170mA		
UM423		15 VDC	400mA	20mA	180mA		
UM424		± 12 VDC	± 230mA	25mA	170mA		
UM425		± 15 VDC	± 190mA	25mA	170mA		

NOTE:

- Alternate pin-out version. If available are designated by suffixes.
For example, UM401 is also available as UM401S and UM401T.

CASE C



*NP(NO PIN)ON SINGLE OUTPUT MODELS

All dimensions in inches(mm)

Tolerances .xx=±0.02

.xxx=±0.010



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