

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.

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°C
Cooling	Free Air Convection
Storage Temperature Range	-40°C to +100°C
EMI/RFI ²	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 SPECIFICATIONS

Input Voltage RangeSee Table

Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy± 1.0% max.

Voltage Balance, Dual Output± 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

NOTES:

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

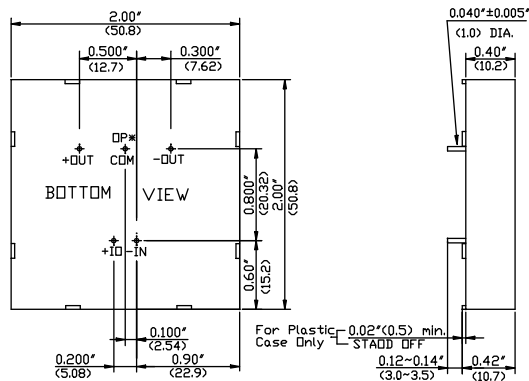
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	ALT ¹ PIN OUT
				NO LOAD	FULL LOAD		
UM401	5 VDC	5 VDC	1000mA	60mA	1650mA	C	S, T
UM402		12 VDC	470mA	80mA	1750mA		
UM403		15 VDC	400mA	85mA	1800mA		
UM404		± 12 VDC	± 230mA	130mA	1700mA		
UM405		± 15 VDC	± 190mA	130mA	1700mA		
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:

1. Alternate pin-out version. If available are designated by suffixes.

For example, UM401 is also available as UM401S and UM401T.

CASE C

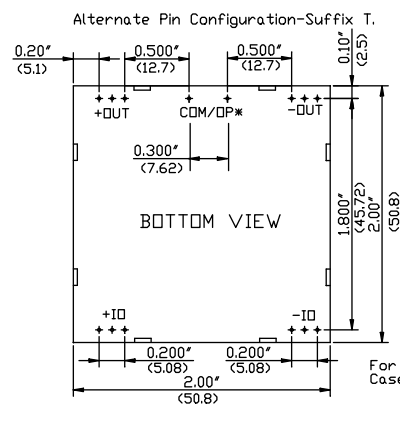
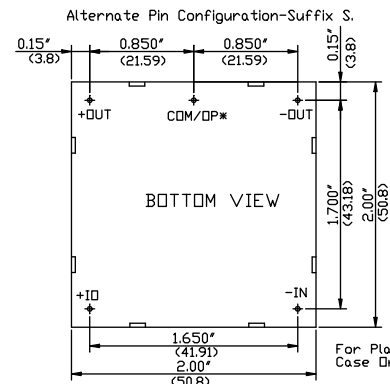


*NP(NO PIN)ON SINGLE OUTPUT MODELS

All dimensions in inches(mm)

Tolerances .xx =± 0.02

.xxx =± 0.010



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