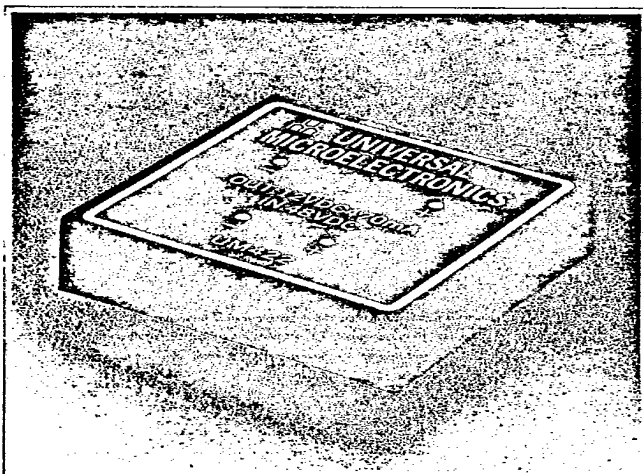


5 to 6 Watt DC-DC Converters

UM 400 SERIES



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

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range..... ± 10%
Input Filter..... Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy..... ± 1.0% max.
Voltage Balance, Dual Output ± 0.5%
Temperature Coefficient
Single Output ± 0.02%/°C
Dual Output ± 0.01%/°C
Ripple and Noise, 20MHz BW
Single Output..... 50mV P-P max.
Dual Output 35mV P-P max.
Short Circuit Protection..... Short Term
Line Regulation..... 0.02%
Load Regulation..... 0.05%

GENERAL SPECIFICATIONS

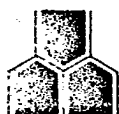
Efficiency 60%
Isolation Voltage..... 500 VDC min.
Isolation Capacitance 80pF
Isolation Resistance 10⁹ ohms
Switching Frequency 20kHz, min.
Operating Temperature Range..... -25°C to +71°C
Storage Temperature Range..... -40°C to +100°C
EMI/RFI..... Six-Sided Continuous Shield¹
Dimensions..... 2 x 2 x 0.4 inches
(50.8 x 50.8 x 10.2 mm)

Case Material

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

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. Metal Case Only.



**UNIVERSAL
MICROELECTRONICS**

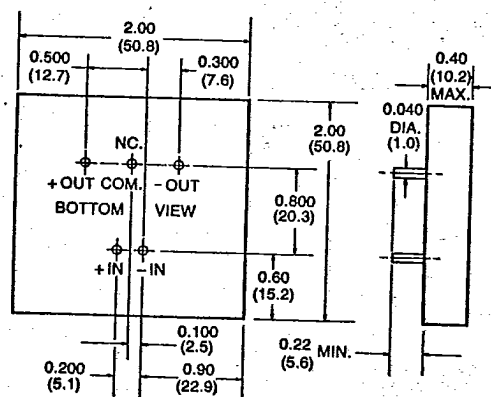
UNIVERSAL MICROELECTRONICS

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	ALT ¹ PIN OUT
				NO LOAD	FULL LOAD		
UM401	5 VDC	5 VDC	1000 mA	60 mA	1700 mA	C	S
UM402	5 VDC	12 VDC	470 mA	70 mA	1750 mA	C	S
UM403	5 VDC	15 VDC	400 mA	70 mA	1800 mA	C	S
UM404	5 VDC	±12 VDC	±230 mA	130 mA	1700 mA	C	S
UM405	5 VDC	±15 VDC	±190 mA	140 mA	1700 mA	C	S
UM406	12 VDC	5 VDC	1000 mA	40 mA	690 mA	C	S
UM407	12 VDC	12 VDC	470 mA	40 mA	700 mA	C	S
UM408	12 VDC	15 VDC	400 mA	40 mA	750 mA	C	S
UM409	12 VDC	±12 VDC	±230 mA	60 mA	710 mA	C	S
UM410	12 VDC	±15 VDC	±190 mA	60 mA	710 mA	C	S
UM411	24 VDC	5 VDC	1000 mA	20 mA	350 mA	C	S
UM412	24 VDC	12 VDC	470 mA	20 mA	340 mA	C	S
UM413	24 VDC	15 VDC	400 mA	20 mA	360 mA	C	S
UM414	24 VDC	±12 VDC	±230 mA	35 mA	360 mA	C	S
UM415	24 VDC	±15 VDC	±190 mA	35 mA	360 mA	C	S
UM416	28 VDC	5 VDC	1000 mA	20 mA	290 mA	C	S
UM417	28 VDC	12 VDC	470 mA	20 mA	300 mA	C	S
UM418	28 VDC	15 VDC	400 mA	20 mA	310 mA	C	S
UM419	28 VDC	±12 VDC	±230 mA	25 mA	290 mA	C	S
UM420	28 VDC	±15 VDC	±190 mA	25 mA	290 mA	C	S
UM421	48 VDC	5 VDC	1000 mA	14 mA	170 mA	C	S
UM422	48 VDC	12 VDC	470 mA	14 mA	170 mA	C	S
UM423	48 VDC	15 VDC	400 mA	14 mA	180 mA	C	S
UM424	48 VDC	±12 VDC	±230 mA	20 mA	170 mA	C	S
UM425	48 VDC	±15 VDC	±190 mA	20 mA	170 mA	C	S

NOTE: 1. Alternate pin-out version. To order, suffix an "S" to the model number.
For example, UM401S, UM421S etc. See case drawing below.

CASE C

STANDARD PIN CONFIGURATION



ALTERNATE PIN CONFIGURATION SUFFIX S

* NC (NO CONNECTION) ON SINGLE OUTPUT MODELS

ALL DIMENSIONS IN INCHES (MM)

