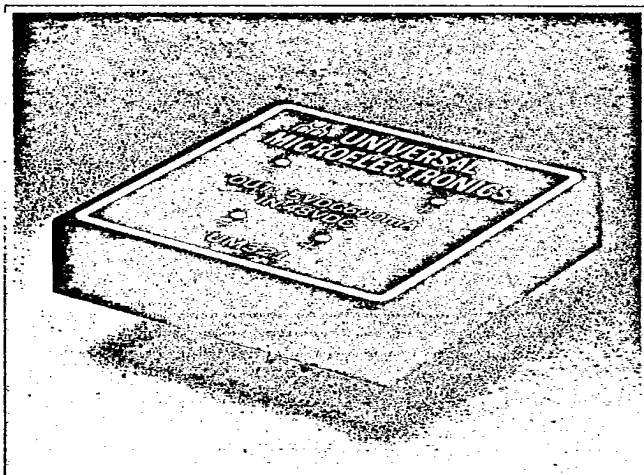


3 Watt DC-DC Converters

UM 300 SERIES



- 60% Efficiency
- Regulated Outputs
- Pi Input Filter
- Low Ripple and Noise
- 500 VDC Isolation
- 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

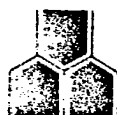
OUTPUT SPECIFICATIONS

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 Shield
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

NOTE: 1. Metal Case Only.



**UNIVERSAL
MICROELECTRONICS**

8004-8416

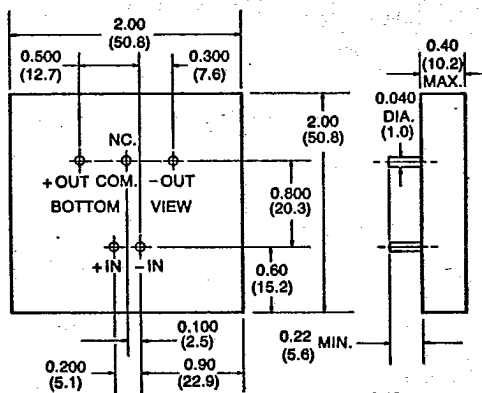
UNIVERSAL MICROELECTRONICS

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	ALT [†] PIN OUT
				NO LOAD	FULL LOAD		
UM301	5 VDC	5 VDC	600 mA	50 mA	1000 mA	C	S
UM302	5 VDC	12 VDC	250 mA	60 mA	900 mA	C	S
UM303	5 VDC	15 VDC	200 mA	70 mA	900 mA	C	S
UM304	5 VDC	± 12 VDC	± 125 mA	120 mA	900 mA	C	S
UM305	5 VDC	± 15 VDC	± 100 mA	130 mA	900 mA	C	S
UM306	12 VDC	5 VDC	600 mA	35 mA	420 mA	C	S
UM307	12 VDC	12 VDC	250 mA	35 mA	370 mA	C	S
UM308	12 VDC	15 VDC	200 mA	35 mA	370 mA	C	S
UM309	12 VDC	± 12 VDC	± 125 mA	50 mA	370 mA	C	S
UM310	12 VDC	± 15 VDC	± 100 mA	50 mA	370 mA	C	S
UM311	24 VDC	5 VDC	600 mA	20 mA	210 mA	C	S
UM312	24 VDC	12 VDC	250 mA	20 mA	180 mA	C	S
UM313	24 VDC	15 VDC	200 mA	20 mA	180 mA	C	S
UM314	24 VDC	± 12 VDC	± 125 mA	35 mA	180 mA	C	S
UM315	24 VDC	± 15 VDC	± 100 mA	35 mA	180 mA	C	S
UM316	28 VDC	5 VDC	600 mA	20 mA	180 mA	C	S
UM317	28 VDC	12 VDC	250 mA	20 mA	155 mA	C	S
UM318	28 VDC	15 VDC	200 mA	20 mA	155 mA	C	S
UM319	28 VDC	± 12 VDC	± 125 mA	35 mA	155 mA	C	S
UM320	28 VDC	± 15 VDC	± 100 mA	35 mA	155 mA	C	S
UM321	48 VDC	5 VDC	600 mA	14 mA	100 mA	C	S
UM322	48 VDC	12 VDC	250 mA	14 mA	90 mA	C	S
UM323	48 VDC	15 VDC	200 mA	14 mA	90 mA	C	S
UM324	48 VDC	± 12 VDC	± 125 mA	20 mA	90 mA	C	S
UM325	48 VDC	± 15 VDC	± 100 mA	20 mA	90 mA	C	S

NOTE: 1. Alternate pin-out version. To order, suffix an "S" to the standard model number.
For example, UM301S, UM321S, etc. See case drawing below.

CASE C

STANDARD PIN CONFIGURATION



ALTERNATE PIN CONFIGURATION SUFFIX S

* NC(NO CONNECTION) ON SINGLE OUTPUT MQDELS

ALL DIMENSIONS IN INCHES (MM)

