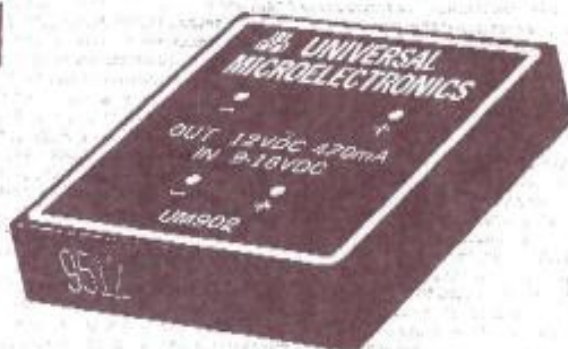


UM 900 SERIES

5 to 6 Watt DC-DC Converters

- 2:1 Input Range
- Efficiency to 80%
- Pi Input Filter
- Short Circuit Protection
- 100 KHz Switching Frequency
- Six-Sided Shield



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 12V	9-18V
24V	18-36V
48V	36-72V
Input Filter	Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy, Single Output	±1% max.
Dual, + Output	±1% max.
- Output	±1% max.
Voltage Balance, Dual Output at Full Load	±1.0% max.
Transient Response,	
Single, 25% Step Load Change	< 500 μ sec.
Dual, FL-1/2L, ±1% Error Band	< 500 μ sec.
Ripple and Noise, 20MHz BW	10mV RMS max.
	75mV P-P max.
Temperature Coefficient	±0.02%/°C max.
Short Circuit Protection	Continuous
Line Regulation ¹ , Single/Dual/Output	±0.2% max.
Load Regulation ² , Single Output	±0.1% max.
Dual Output	±1% max.

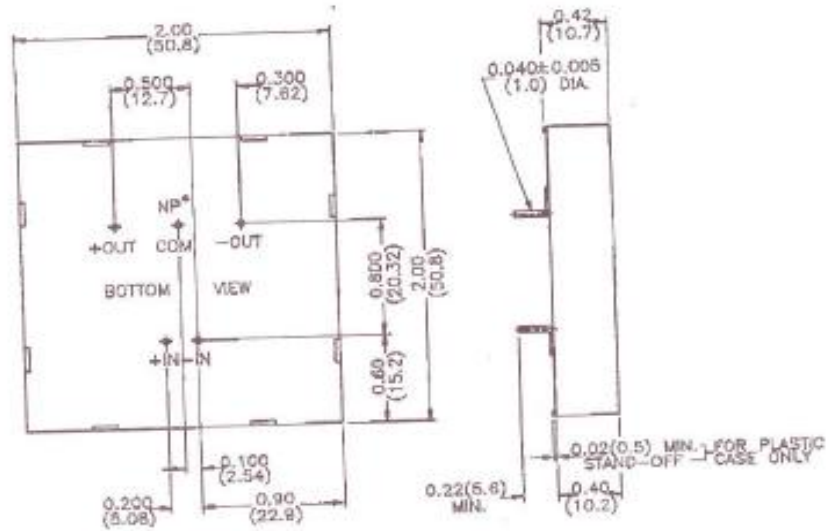
GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Capacitance	80pF
Isolation Resistance	10 ⁸ ohms min.
Switching Frequency	90-110 KHz
Operating Temperature Range,	
Ambient, None Derating	-25°C to +71°C
Case Temperature	95°C max.
Cooling	Free Air Convection
Storage Temperature Range	-55°C to +105°C
EMI/RFI	Six-Sided Continuous Shield ³
Dimensions	2x2x0.4 inches
	(50.8x50.8x10.2mm)
Case Material,	
Standard Models	Non-Conductive Black Plastic
	UL94V-0
Suffix "M" Models	Black-Coated Copper with
	Non-Conductive Base
Weight	46g

- NOTES: 1. Measured from High Line to Low Line.
2. Measured from Full Load to 1/4 Full Load.
3. Metal Case Only.

MODEL NUMBER	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	CASE
				NO LOAD	FULL LOAD		
UM901	12 VDC	5 VDC	1000 mA	25 mA	565 mA	74	C
UM902	12 VDC	12 VDC	470 mA	25 mA	615 mA	77	C
UM903	12 VDC	15 VDC	400 mA	25 mA	640 mA	78	C
UM904	12 VDC	±12 VDC	±230 mA	30 mA	590 mA	78	C
UM905	12 VDC	±15 VDC	±190 mA	30 mA	610 mA	75	C
UM906	24 VDC	5 VDC	1000 mA	20 mA	280 mA	74	C
UM907	24 VDC	24 VDC	470 mA	20 mA	305 mA	77	C
UM908	24 VDC	15 VDC	400 mA	20 mA	315 mA	79	C
UM909	24 VDC	±12 VDC	±230 mA	25 mA	395 mA	78	C
UM910	24 VDC	±15 VDC	±190 mA	25 mA	305 mA	78	C
UM911	48 VDC	5 VDC	1000 mA	15 mA	138 mA	75	C
UM912	48 VDC	12 VDC	470 mA	15 mA	155 mA	76	C
UM913	48 VDC	15 VDC	400 mA	15 mA	135 mA	80	C
UM914	48 VDC	±12 VDC	±230 mA	15 mA	150 mA	77	C
UM915	48 VDC	±15 VDC	±190 mA	15 mA	150 mA	78	C

CASE C



*NP (NO PIN) ON SINGLE OUTPUT MODELS
 ALL DIMENSIONS IN INCHES (mm)
 Tolerance .xx ±0.02
 .xxx ±0.010



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