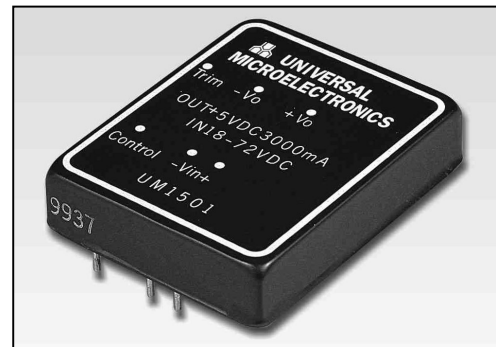


UM1500 SERIES

15 to 20 Watt DC-DC Converters

- ◆ Surface Mount Technology
- ◆ Efficiency 82%
- ◆ Wide Input Range
- ◆ 10.2 Watt/Cubic Inch
- ◆ Remote On/Off Control
- ◆ Low Profile



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range,

15W	48V Nominal, 18-72 VDC
20W	24V Nominal, 18-36 VDC
	48V Nominal, 36-72 VDC

Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy, Single Output	±1% max.
Dual,+Output	±1% max.
-Output	±2% max.
Triple, 5V	±1% max.
±12V/15V	±3% max.

Voltage Balance, Dual Output at Full Load
..... ±2.0% max.

Transient Response,

Single, Dual , 25% Step Load Change, ±1% Error Band	<500u sec.
External Trim Adj. Range	+10%
Ripple and Noise , 20MHz BW ¹	15mV RMS max. 75mV P-P max.

Temperature Coefficient ±0.02%/°C max.

Short Circuit Protection Continuous

Overvoltage Protection Trip Point (Zener Clamp Type)

5V	6.8V
12V	15V
15V	18V

Line Regulation², Single/Dual Output ±0.5% max.
Triple Output 1% max.

Load Regulation³,Single Output ±0.5% max.
Dual Output ±1% max.
Triple Output +5V ±1% max.
Auxiliaries ±5% max.

GENERAL SPECIFICATIONS

Remote On/Off Control See Below

Efficiency See Table

Isolation Voltage 500 VDC min.

Isolation Resistance 10⁸ ohms min.

Switching Frequency

Single/Dual 330KHz typ.

Triple 200KHz typ.

Operating Temperature Range,

Ambient, 15W,None Derating -40°C to +71°C

20W, None Derating -40°C to +60°C

Cooling Free Air Convection

Storage Temperature Range -55°C to +105°C

Dimensions Case J 2.0x1.6x0.46 Inches
(50.8x40.6x11.7 mm)

Case Material Black Coated Copper With
Non-Conductive Base

Weight 50g

NOTES:

1. Measured with 3.3uF/25V tantalum capacitor across each output for triple output models,0.1uF ceramic capacitor across each output for single and dual output models.
2. Measured from high line to low line.
3. Measured from full load to specified load with all other outputs at rated load: single: full load to 1/4 load; dual outputs loaded balanced from full load to 1/2 load, triple: full load to 1/10 load.

REMOTE ON/OFF CONTROL

Control Input	Pin 1
Control Common	Pin 3
Logic Compatibility.....	CMOS or Open Collector TTL
Control Voltage.....	
On	>+2.5 VDC or Open Circuit
Off	< +0.8 VDC or Jumper to Pin 3
Converter Shutdown Idle Current	10 mA



**UMEC
INTERNATIONAL**

UM1500

1 OF 2

REV.4

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