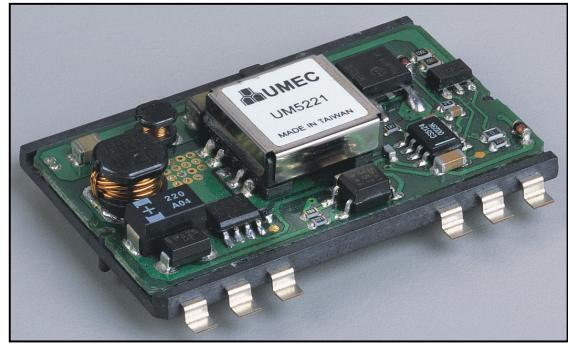


UM5200 SERIES

15 Watts DC-DC Converters

- ◆ Surface Mount Isolated DC-DC Converter
- ◆ Low Profile, Open Frame Package
- ◆ Efficiency to 86%
- ◆ 2:1 Input Range
- ◆ 400KHz Switching Frequency
- ◆ Remote On/Off Control
- ◆ Compliant with Industry Standard Reflow Profiles



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 48V 36-75V
 Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy..... ±2% max.
 Voltage Adjustability¹ ±10%
 Transient Response,
 25% Step Load Change(1% error band) <500 μS
 Temperature Coefficient ±0.02%/°C max.
 Short Circuit Protection Short Time
 Over voltage Protection Trip Point (Zener Clamp Type)
 1.8V,2.5V,3.3V 4.3V
 5V 6.8V
 Line Regulation² ±0.5% max.
 Load Regulation³
 1.8V ±2.0% max.
 2.5V ±1.5% max.
 3.3V,5V ±0.5% max.
 Maximum Capacitive Load 1000uF
 Ripple and Noise, 20MHz BW⁴
100mVp-p, 30mVrms max.

GENERAL SPECIFICATIONS

Efficiency⁵ See Table
 Isolation Voltage 1500VDC min.
 Isolation Resistance 10⁸ ohms min.
 Switching Frequency 400KHz typ.
 Operating Ambient Temperature⁶ -40°C to +75°C
 Cooling Free Air Convection
 Storage Temperature Range -40°C to +105°C
 Dimensions 1.86*1.15*0.347 inches
 (47.4*29.2*8.82mm)
 Weight 12g

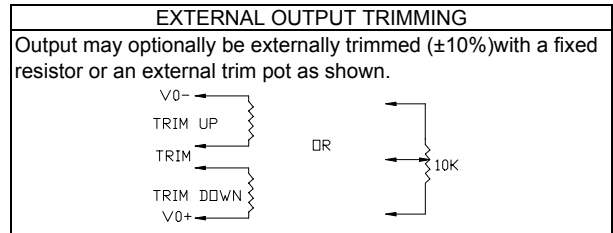


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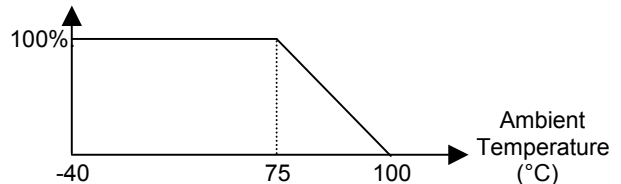
NOTES

1.



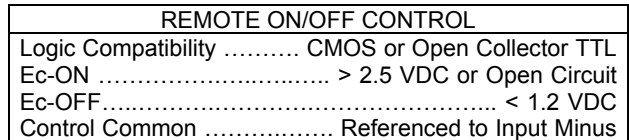
UM5221 trim adj. range: ±5% (36V≤Vin<48V),
 ±10% (48V≤Vin≤75V).

2. Measured from high line to low line.
3. Measured from full load to 1/10 load.
4. Measured with 0.1uF ceramic capacitor connect to the output pins.
5. Measured at nominal line.
6. Output Power

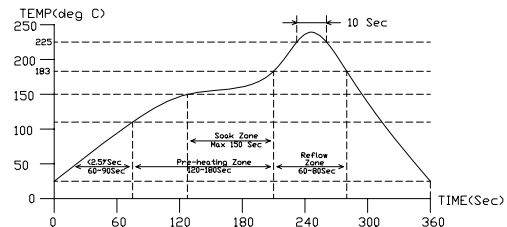


7. The converter required a minimum 10% loading on the output. Operation below 10% load conditions will not damage these devices. However they may not meet all listed spec.

8.



9. Recommended Reflow Soldering

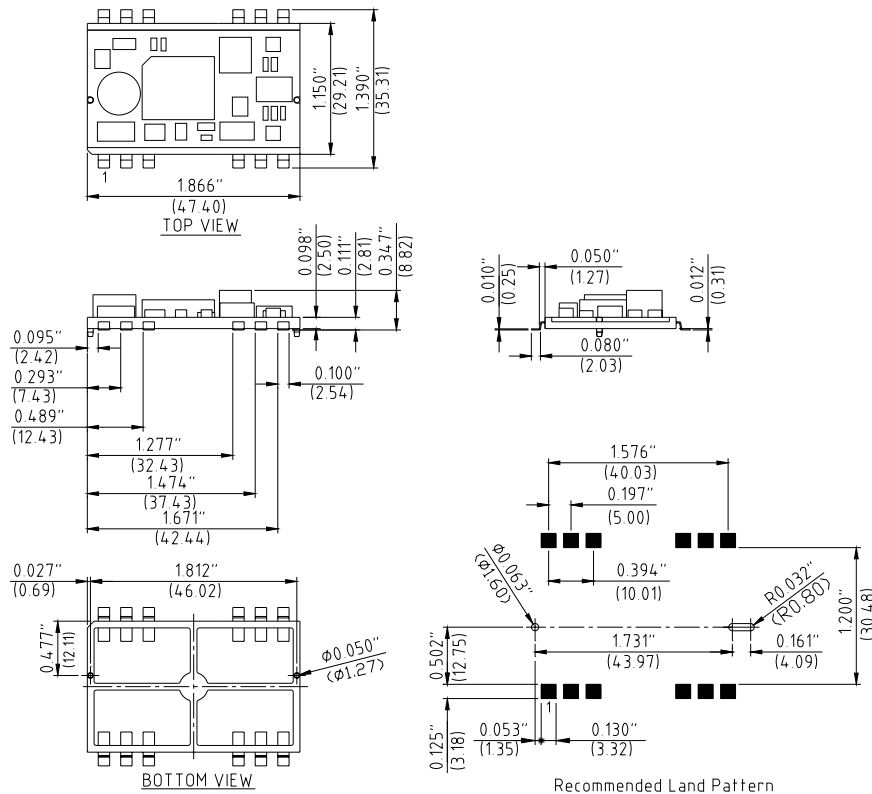


2539 W. 237TH STREET, SUITE A,
 TORRANCE, CA 90505
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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF (Typ.)
				NO LOAD	FULL LOAD	
UM5221	48 VDC	5 VDC	3000 mA	35 mA	359 mA	87
UM5227	48 VDC	1.8 VDC	6000 mA	40 mA	271mA	83
UM5228	48 VDC	2.5 VDC	5000 mA	38 mA	307 mA	85
UM5229	48 VDC	3.3 VDC	4500 mA	35 mA	360 mA	86

NOTE: Other output voltage can be supported upon request.

Mechanical Drawing



Pin Connections	
Pin NO.	Function
1	+Vout
2	-Vout
3	NC
4	Trim
5	NC
6	NC
7	NC
8	On/Off
9	NC
10	NC
11	-Vin
12	+Vin

*NC (No Connection)

All dimensions in inches (mm).

Tolerance .xx = ±0.04"

.xxx = ±0.010"



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REV.0