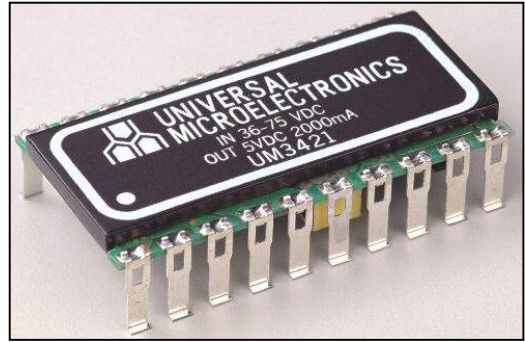


UM3400 SERIES

15 Watts DC-DC Converters

- ◆ Surface Mount Isolated DC-DC Converter
- ◆ Low Weight, Open Frame Package
- ◆ Efficiency to 88%
- ◆ 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,
 50% Step Load Change(1% error band) <500 μS
 Temperature Coefficient ±0.02%/°C max.
 Short Circuit Protection Continuous
 Overvoltage Protection Trip Point (Zener Clamp Type)
 2.5V,3.3V 4.3V
 5V 6.8V
 Line Regulation² ±0.5% max.
 Load Regulation³ ±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 +70°C
 Cooling Free Air Convection
 Storage Temperature Range -40°C to +105°C
 Dimensions 2*1.12*0.41 inches
 (50.8*28.5*10.4mm)
 Weight 15g

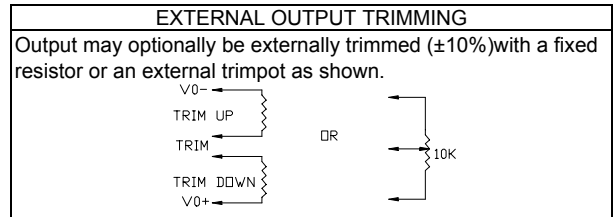


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UM3400

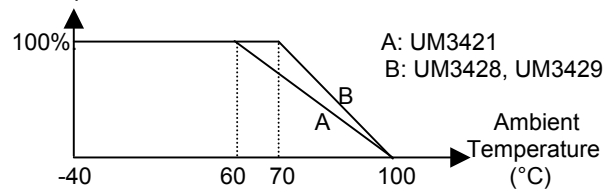
NOTES

1.



UM3421 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



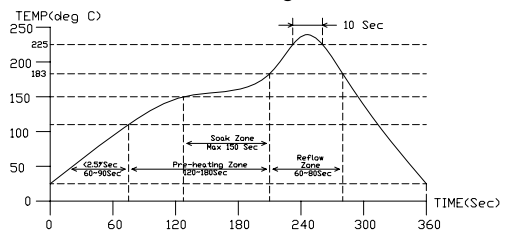
Maximum baseplate heat sink temperature must not be exceeded 100°C.

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.

REMOTE ON/OFF CONTROL	
Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	> 2.5 VDC or Open Circuit
Ec-OFF	< 1.2 VDC
Control Common	Referenced to Input Minus

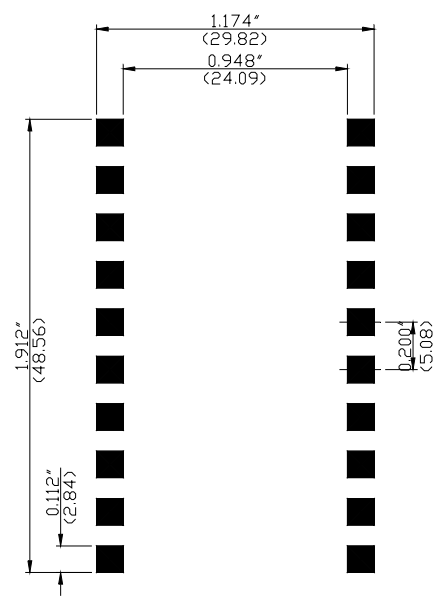
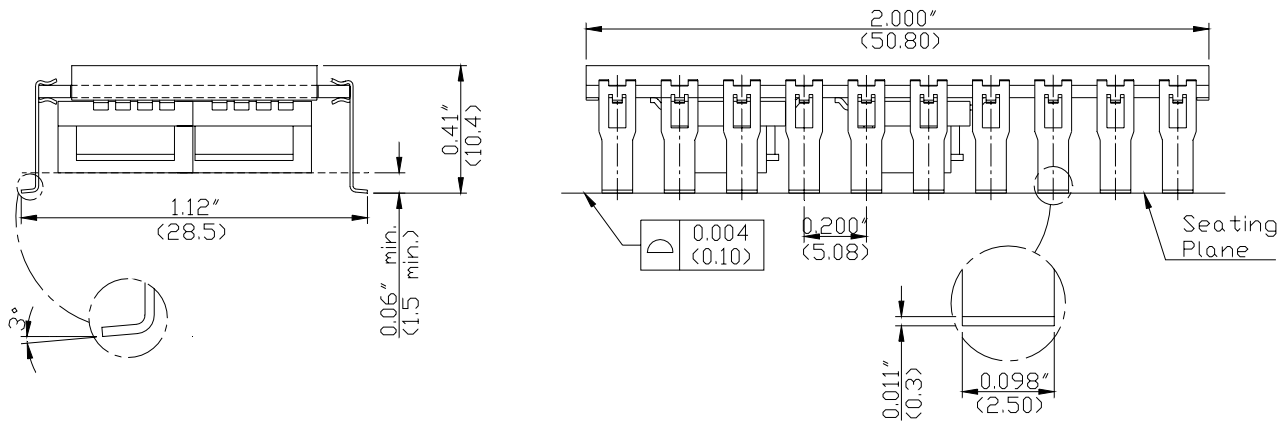
9. Recommended Reflow Soldering



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 TORRANCE, CA 90505
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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF (typ.)
				NO LOAD	FULL LOAD	
UM3421	48 VDC	5 VDC	3000 mA	20 mA	355 mA	88
UM3428	48 VDC	2.5 VDC	3000 mA	20 mA	180 mA	87
UM3429	48 VDC	3.3 VDC	3000 mA	20 mA	235 mA	88

NOTE: Other output voltage can be supported upon request.



V0+	1	20	NC
V0-	2	19	NC
V0+	3	18	NC
V0-	4	17	TRIM
V0-	5	16	NC
NC	6	15	NC
NC	7	14	NC
NC	8	13	NC
NC	9	12	REM
Vin+	10	11	Vin-

*NC (N1 Connection)
 All dimensions in inches (mm).
 Tolerance .xx =±0.04"
 .xxx=±0.010"

Recommended Pad Position and Dimension



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