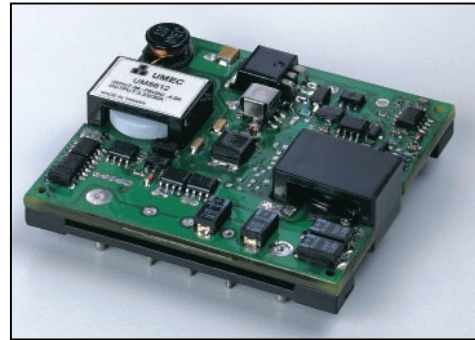


UM5600 SERIES

60-150 Watt DC-DC Converters

- ◆ 2:1 Input Range
- ◆ 60-150 W Isolated Output
- ◆ High-Density
- ◆ Open-Frame
- ◆ Standard “Half-Brick” Package
- ◆ Short Circuit Protection
- ◆ Remote on/off Control
- ◆ Safety Approvals Pending(EN60950 and UL/cUL)



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 Voltage peak/surge.....100V/100ms max.
 Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy¹..... ±1.5%max.
 Transient Response², Single,25% step Load Change,
 ±1% Error Band <500u sec.
 External Trim Adj. Range ±10%
 Short Circuit Protection Continuous
 Line Regulation³..... ±0.2% max.
 Load Regulation⁴..... ±0.4% max.
 Ripple and Noise, 20MHz BW⁵,
 2V, 3.3V, 5V 100mV p-p max.
 50mVrms max.
 12V 200mV p-p max.
 100mVrms max.
 Overvoltage Protection
 2.0V 2.6V typ.
 3.3V 4.3V typ.
 5.0V 6.0V typ.
 12V 14.5V typ.

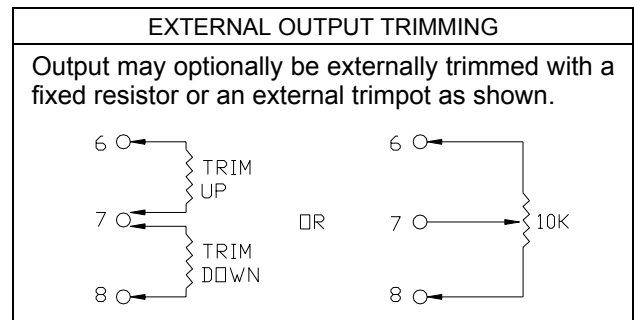
GENERAL SPECIFICATIONS

Efficiency See Table
 Isolation Voltage 1500VDC min.
 Switch Frequency 300KHz
 Isolation Resistance⁶ 10⁸ Ohms min.
 Over temperature shutdown point⁷ 120°C typ.
 Operation Temperature⁸..... -40°C to +120°C
 Storage Temperature Range -40°C to +125°C
 Dimensions 2.40*2.28*0.46 inches
 (60.96*57.91*11.70 mm)
 Weight 70g

NOTE

1. Defined at the static output regulation at 25°C,including initial setting accuracy, Line voltage within stated limits and load current within stated limits.
2. di/dt= 0.1A/1uS, Tc= 25°C; load change= 0.5 Io max. to 0.75 Io max. and 0.75 Io max. to 0.5 Io max.
3. Measured from high line to low line.
4. Measured from full load to 1/10 load.
5. Measured with 100uF Low ESR tantalum capacitor and 1uF ceramic capacitor across output.
6. Measured with 500VDC
7. Non-latching shutdown protection
8. Defined as the highest temperature measured at any one of the specified temperature hotspot checkpoints.
9. Maximum Capacitive load across the output ports should not over following indicated values.
10. Standard product is active high, active low remote on/off option is available, to order suffix a “N” to the model number e.g. UM5611N.

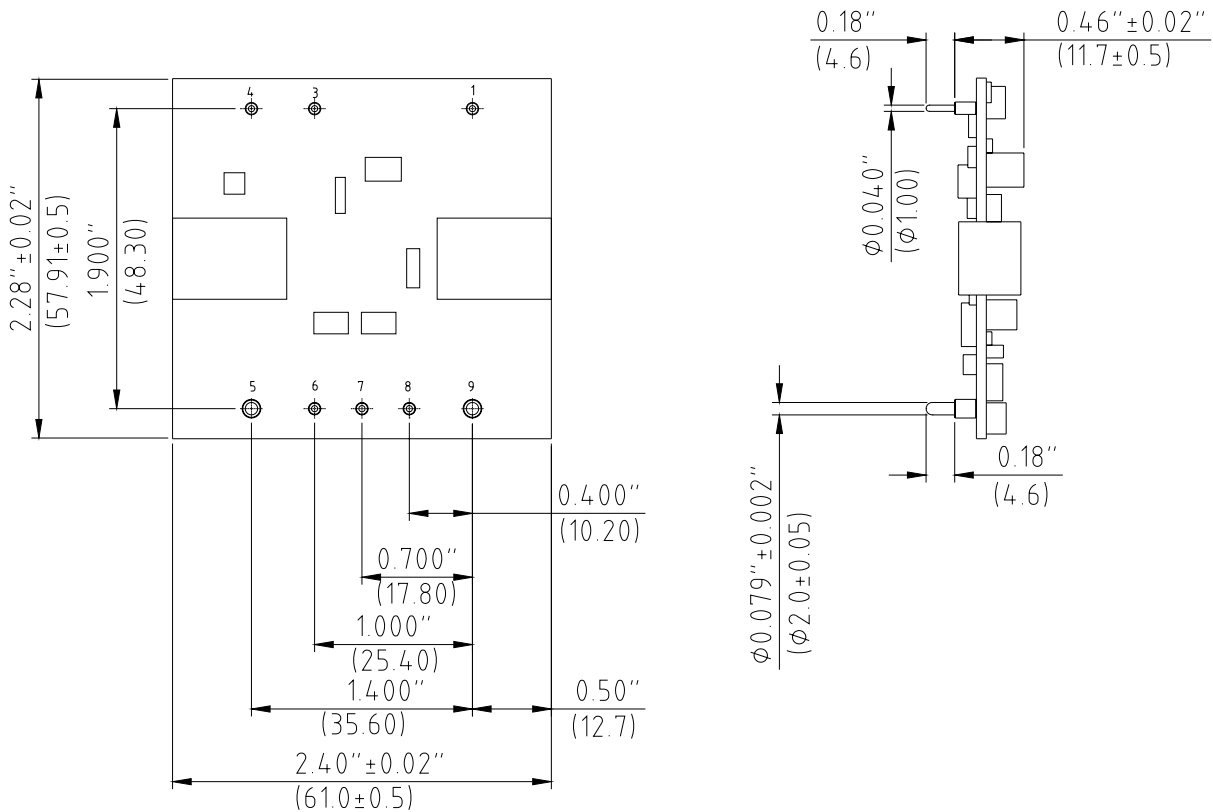
REMOTE ON/OFF CONTROL	
Logic Compatibility.....	CMOS or Open Collector TTL
Ec-ON	> +2.5 VDC or Open Circuit
Ec-OFF	< 0.8 VDC
Control Common	Referenced to Input Minus



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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT FULL LOAD	TYPICAL EFFICIENCY	MAXIMUM ⁹ CAPACITRE LOAD(μF)
UM5611	48 VDC	2.0 VDC	30 A	1453 mA	86%	10000
UM5612	48 VDC	3.3 VDC	30 A	2317 mA	89%	10000
UM5613	48 VDC	5 VDC	30 A	3434 mA	91%	10000
UM5614	48 VDC	12 VDC	12.5 A	3491 mA	89.5%	4400

NOTE: Other output voltage can be supported upon request.



Pin Connections	
Pin	Function
1	-Vin
2	No Pin
3	Remote On/Off Control
4	+Vin
5	+Vout
6	+Vsense
7	Trim
8	-Vsense
9	-Vout

All dimensions in inches(mm)

Tolerance .xx = ±0.04"

.xxx = ±0.010"

NOTE:

If remote sensing not utilized, output sense pin must be jumpered to respective output power pins, for normal operation connect Pin NO.5 to Pin NO.6 and Pin NO.8 to Pin NO.9.



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