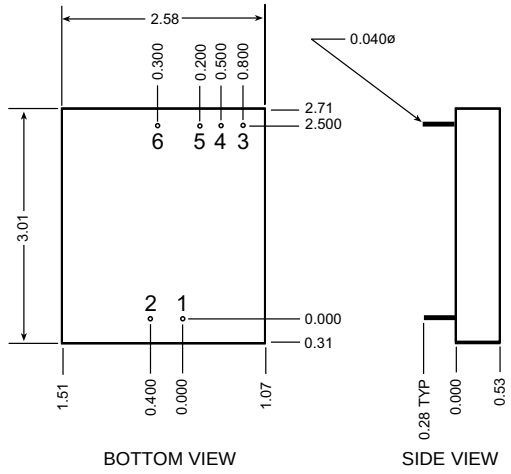
29 Watt CD Triple Series DC/DC Converters

Case Dimension



BOTTOM VIEW SIDE VIEW

Mechanical tolerances unless otherwise noted:
XX.XX = ±0.05
XX.XXX = ±0.005

PIN	FUNCTION
1	+INPUT
2	-INPUT
3	+12V
4	CMN
5	-5V
6	+5V

Specifications

Model		48T12.5CD		
Features		Low Profile Case		
Power		28.5 Watts		
Input Parameters				
Voltage Range	min typ max	18.0 VDC 48.0 VDC 72.0 VDC		
Efficiency, Full Load	typ	83%		
Switching Frequency	typ	220 kHz		
Output Parameters		+5V	+12V	-5V
Output Voltage, Max Load	min typ max	4.95 VDC 5.00 VDC 5.05 VDC	11.60 VDC 12.00 VDC 12.40 VDC	4.8 VDC 5.00 VDC 5.20 VDC
Rated Load (2)	min max	750 mA 3000 mA	250 mA 1000 mA	75 mA 300 mA
Load Regulation Load = Min to Max	typ max	0.7% 1.2%	1.7% 2.5%	4.0% 5.0%
Line Regulation Vin = Min to Max VDC	typ max	0.1% 0.5%	0.3% 0.5%	0.3% 0.5%
Noise, 0 to 20 MHz bw (1)	typ max	50 mV p-p 100 mV p-p	35 mV p-p 70 mV p-p	50 mV p-p 120 mV p-p
General Specifications				
Isolation				
Isolation Voltage Input to Output	min	1544 VDC		
Input to Output Capacitance	typ	350 pF		
Environmental				
Case Operating Temperature Range No Derating	min max	-25°C 85°C		
Storage Temperature Range	min max	-40°C 105°C		

(1) Noise is measured per CALEX application notes. Measurement bandwidth is 0 - 20 MHz. Noise measurements are made with a 1µF tantalum and a 0.01µF ceramic capacitor located 1" away from the converter. Input reflected ripple is measured with a 3.3 to 33 µF, 0.5 to 5 Ohm ESR, 100 Volt aluminum electrolytic capacitor connected directly across the input pins.

(2) Minimum load is required for proper regulation only. However, optimum performance is obtained when this power supply is operated within the minimum to maximum load specifications. With other load currents the output voltage may be outside of the specification limits.

(3) Specifications subject to change without notice.