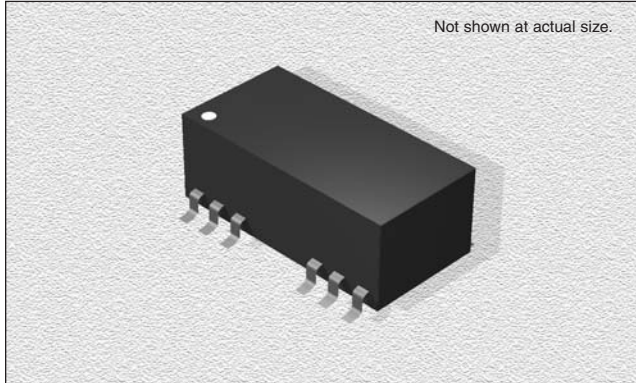


# CTDD3215M-D Series

Fixed Input Isolated & Unregulated  
1W Output, Dual Output



## FEATURES

- Temperature Range:** -40°C to 85°C
- Isolation:** 6KVDC
- Package:** UL94-V0
- Miscellaneous:** No heatsink required. No external component required. International standard pinout. Small footprint. Power Density 0.22 W/cm<sup>3</sup>. Positive & negative voltage output. Custom service available.
- Samples available.**

## CHARACTERISTICS

- Short Circuit Protection:** 1 second
- Temperature Rise at Full Load:** 25°C Max. 15°C Typ.
- Cooling:** Free air convection
- Operating Temperature Range:** -40°C to +85°C
- Storage Temperature Range:** -55°C to +125°C
- Lead Temperature:** 300°C (1.5mm from case for 10 seconds)
- Storage Humidity Range:** ≤ 95%
- Case Material:** Plastic (UL94-V0)

## SPECIFICATIONS

Part Number	Vin Nom.	Input Range	Vout	Iout Max. (mA)	Iout Min. (mA)	Effi(Typ.)
CTDD3215M-0515D-1	5VDC	4.5-5.5VDC	±15VDC	33	4	73%

## ISOLATION SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	6000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

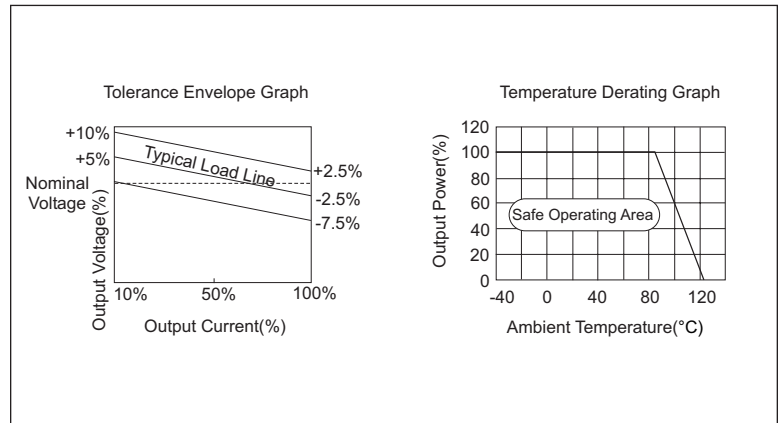
## OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 5%			±1.2	%
Load regulation	10% to 100% load(5V output)		15		%
	10% to 100% load(12V output)		10		%
	10% to 100% load(24V output)		10		%
	10% to 100% load(48V output)		10		%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		100	200	mVp-p
Switching frequency	Full load, nominal input		200		KHz

Note:

1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

## TYPICAL CHARACTERISTICS

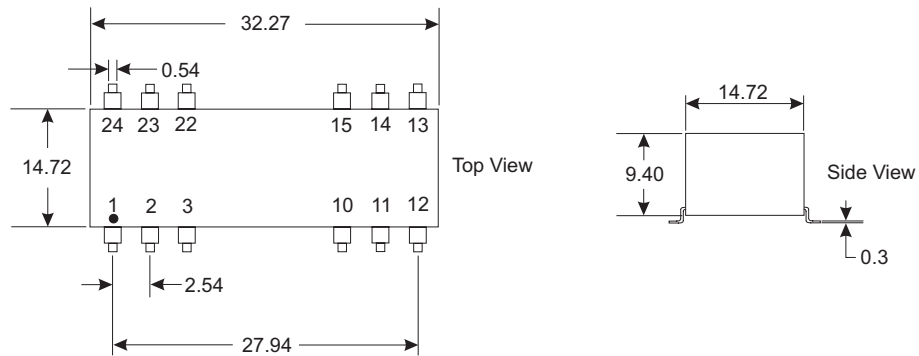


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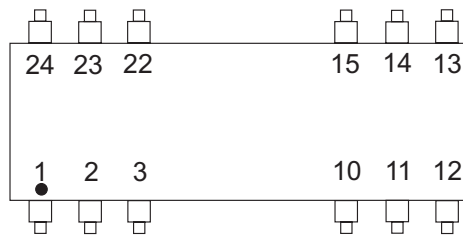
### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



Note: All pins on a 2.54mm pitch; all pin diameters are 0.50mm; all dimensions in mm

### PIN CONNECTIONS

Pin	Function
12,13	V <sub>in</sub>
10,15	GND
3,22	-V <sub>o</sub>
2,23	0V
1,24	+V <sub>o</sub>



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