CTDD1508MF-D Series

Fixed Input Isolated & Unregulated 1W Output, Dual Output



FEATURES

Efficiency: To 79%
Operating Temperature: -40°C to +85°C
Isolation: 3KVDC
Miscellaneous: Small footprint. SMD package style. No heatsink required. Industry standard pinout. Internal SMD construction. No external component required.
Additional Information: Additional electrical & physical information available upon request.
Samples available. See website for ordering information.

CHARACTERISTICS

Storage Humidity: 95%
Operating Temperature: -40°C to +85°C
Storage Temperature: -55°C to +125°C
Temp. rise at full load: 15°C Typ., 25°C Max.
Lead Temperature: 260°C Max. (1.5mm from case for 10 seconds)
Cooling: Free air convection.
Package Material: Epoxy Resin (UL94-V0)
Short Circuit Protection: 1S (Supply voltage must be discontinued at the end of short circuit duration)
MTBF: >3,500,000 hours
Weight: 1.71g Typ.
Miscellaneous: RoHS Compliant.

SPECIFICATIONS

Part Number	Vin Nom. (VDC)	Input Range (VDC)	Voltage Out (VDC)	Iout Max. (mA)	Iout Min. (mA)	Effi. Typ. (%)
CTDD1508MF-0305D-1	3.3	3.0-3.6	±5	±100	±10	68
CTDD1508MF-0312D-1	3.3	3.0-3.6	±12	±42	±5	77
CTDD1508MF-0505D-1	5	4.5-5.5	±5	±100	±10	71
CTDD1508MF-0509D-1	5	4.5-5.5	±9	±55	±6	77
CTDD1508MF-0512D-1	5	4.5-5.5	±12	±42	±5	78
CTDD1508MF-0515D-1	5	4.5-5.5	±15	±33	±4	79
CTDD1508MF-1205D-1	12	10.8-13.2	±5	±100	±10	71
CTDD1508MF-1209D-1	12	10.8-13.2	±9	±55	±6	73
CTDD1508MF-1212D-1	12	10.8-13.2	±12	±42	±5	74
CTDD1508MF-1215D-1	12	10.8-13.2	±15	±33	±4	75
CTDD1508MF-2405D-1	24	21.6-26.4	±5	±100	±10	70
CTDD1508MF-2412D-1	24	21.6-26.4	±12	±42	±5	77
CTDD1508MF-2424D-1	24	21.6-26.4	±24	±21	±3	79

ISOLATION SPECIFICATIONS

Item	Test Condition	Min.	Typ.	Max.	Units
Isolation Voltage	Tested for 1 Min. and 1mA Max.	3000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

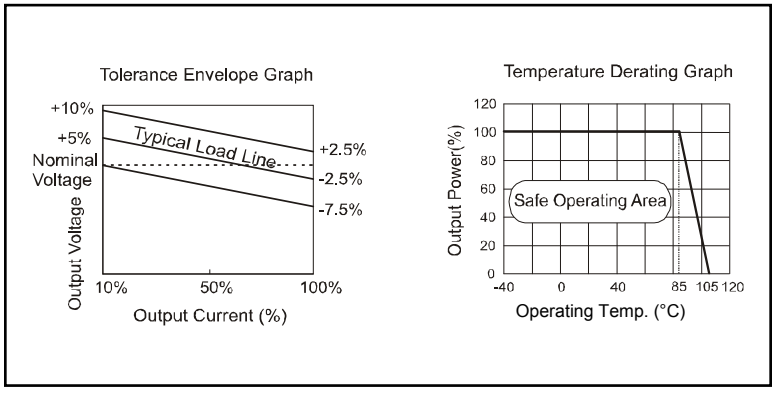
OUTPUT SPECIFICATIONS

Item	Test Condition	Min.	Typ.	Max.	Units
Output Power		0.1		1	W
Line Regulation	For Vin change of ±1% (3.3V output)			±1.5	%
Line Regulation	For Vin change of ±1% (Other output)			±1.2	%
Load Regulation	From 10% to 100% load (3.3V output)		15	20	%
Load Regulation	From 10% to 100% load (5V output)		12.8	15	%
Load Regulation	From 10% to 100% load (9V output)		8.3	10	%
Load Regulation	From 10% to 100% load (12V output)		6.8	10	%
Load Regulation	From 10% to 100% load (15V output)		6.3	10	%
Load Regulation	From 10% to 100% load (24V output)		6.0	10	%
Output Voltage Accuracy	See Tolerance Envelope Graph				
Temperature Drift	100% Full Load			±0.03	%/°C
Output Ripple & Noise*	20MHz Bandwidth		50	75	mVp-p
Switching Frequency	Full Load, Nominal Input (24V input)		500		KHz
Switching Frequency	Full Load, Nominal Input (Other input)		100		KHz

*Test ripple and noise by "parallel cable" method.

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

TYPICAL CHARACTERISTICS

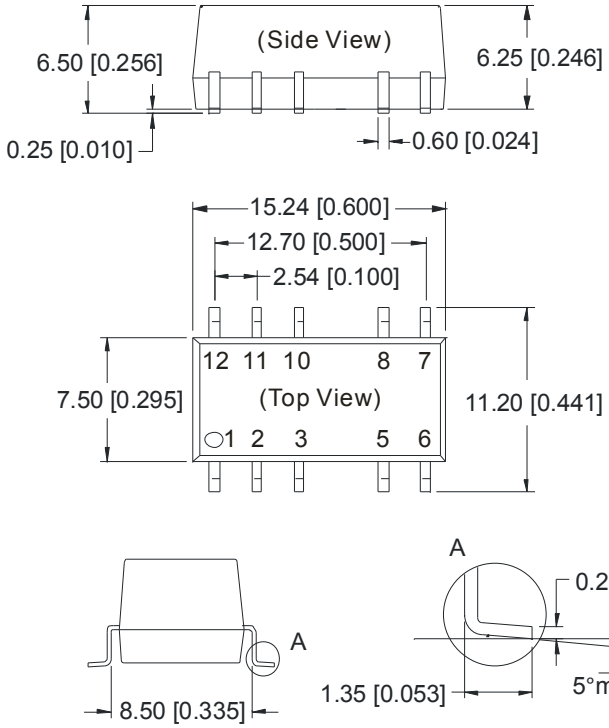


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CTDD1508MF-D

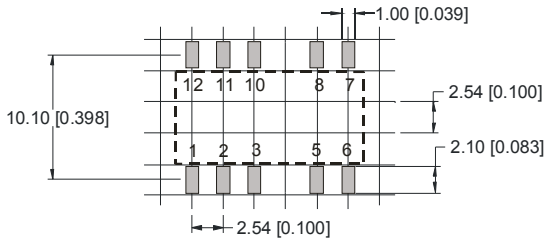
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OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



Note:
Unit: mm[inch]
Pin section tolerances: ± 0.10mm[± 0.004inch]
General tolerances: ± 0.25mm[± 0.010inch]

PIN CONNECTIONS



FOOTPRINT DETAILS	
Pin	Function
1	GND
2	Vin
5	0V
6	-Vo
8	+Vo
Others	NC

NC:No Connection

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