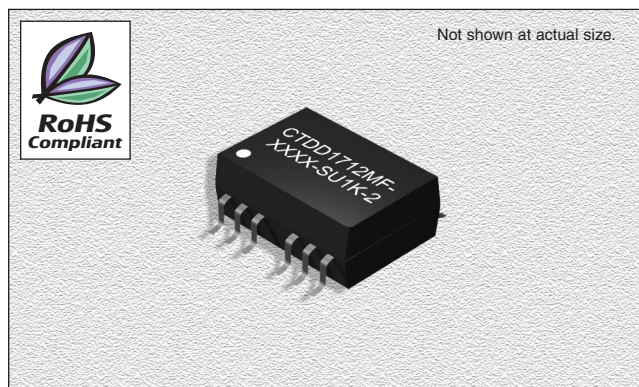


CTDD1712MF-SU1K-2 Series

Fixed Input Isolated & Unregulated 2W Single Output



FEATURES

Efficiency: To 85%
Temperature Range: -40°C to +85°C
Isolation: 1KVDC
Package: UL94-V0
Miscellaneous: SMD Package Style. Single Output Voltage. High Power Density. Industry Standard Pinout. No Heatsink Required. No External Components Required. 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: 260°C
Storage Humidity Range: ≤ 95%
Case Material: Plastic (UL94-V0)
MTBF: >3,500,000 hours
Miscellaneous: RoHS Compliant.

SPECIFICATIONS

Part Number	Vin Nom. (VDC)	Vin Range (VDC)	Voltage Out (VDC)	Io Max. (mA)	Io Min. (mA)	Effi. Typ. (%)
CTDD1712MF-0505-SU1K-2	5	4.5-5.5	5	400	40	81
CTDD1712MF-0509-SU1K-2	5	4.5-5.5	9	222	23	82
CTDD1712MF-0512-SU1K-2	5	4.5-5.5	12	167	17	84
CTDD1712MF-0515-SU1K-2	5	4.5-5.5	15	133	14	84
CTDD1712MF-1205-SU1K-2	12	10.8-13.2	5	400	40	82
CTDD1712MF-1209-SU1K-2	12	10.8-13.2	9	222	23	83
CTDD1712MF-1212-SU1K-2	12	10.8-13.2	12	167	17	85
CTDD1712MF-1215-SU1K-2	12	10.8-13.2	15	133	14	85

ISOLATION SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute and 1mA Max.	1000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

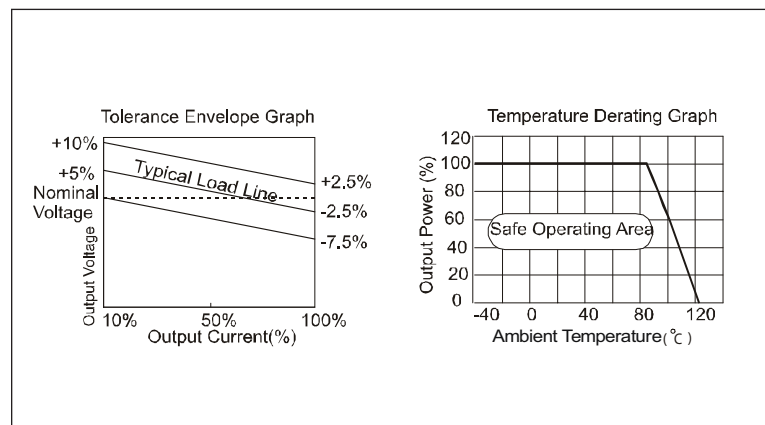
OUTPUT SPECIFICATIONS

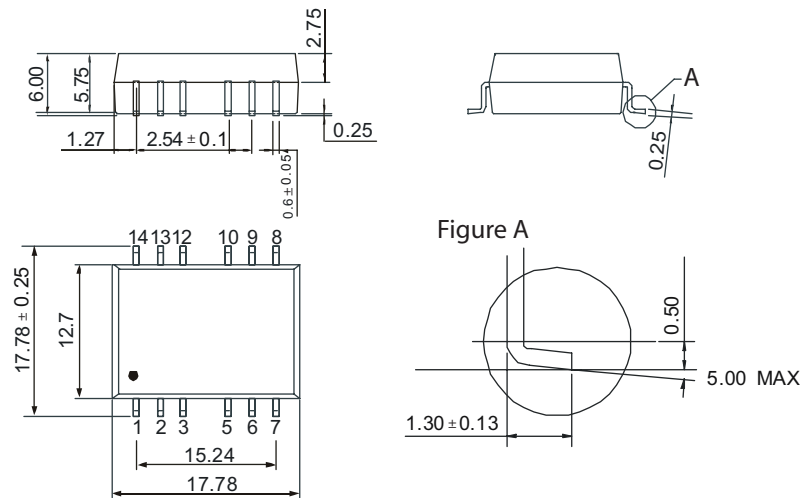
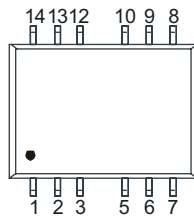
Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.2		2	W
Line regulation	For Vin change of 1%			1.2	%
Load regulation	10% to 100% load (3.3V, 5V output)		12.8	15	%
Load regulation	10% to 100% load (9V output)		8.3	15	%
Load regulation	10% to 100% load (12V output)		6.8	15	%
Load regulation	10% to 100% load (15V output)		6.3	15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		75	150	mVp-p
Noise	20MHz Bandwidth		150	250	mVp-p
Switching frequency	Full load, nominal input		70		KHz

Note:

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

TYPICAL CHARACTERISTICS



CTDD1712MF-SU1K-2 SeriesFixed Input Isolated & Unregulated
2W Single Output**OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS**Note: All Pins on a 2.54mm pitch; All Pin Widths are 0.60 mm; Tolerances: ± 0.15 mm Unit: mm**PIN CONNECTIONS**

Pin	1	2	3	5	6	7	8	9	10	12	13	14
Function	GND	V _{in}	NC	NC	0V	+ V _o	NC	NC	NC	NC	NC	NC

08.13.07