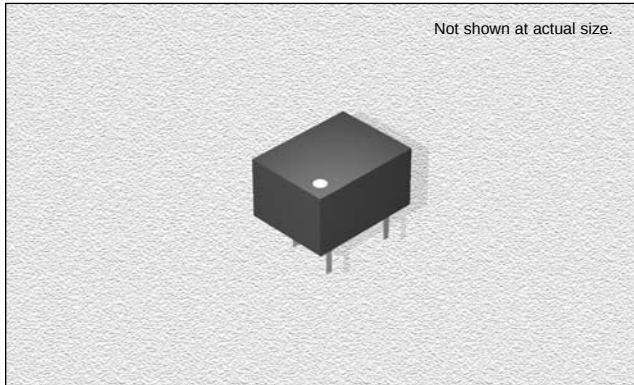


CTDD1210D-S Series

Fixed Input Isolated & Unregulated
1W Output, Single Output



FEATURES

Efficiency: To 80%

Temperature Range: -40°C to 85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: Single Output Voltage. No heatsink required. No external components required. Industry standard pinout. Small footprint. 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

Lead Temperature: 300°C (1.5mm from case for 10 seconds)

Storage Temperature Range: -55°C to +125°C

Storage Humidity Range: ≤ 95%

Case Material: Plastic (UL94-V0)

MTBF: >1,000,000 hours

SPECIFICATIONS

Part Number	Vin Nom.	Input Range	Vout	Iout Max. (mA)	Iout Min. (mA)	Effi(Typ.)
CTDD1210D-0505S-1	5VDC	4.5-5.5VDC	5VDC	200	20	78%
CTDD1210D-0509S-1	5VDC	4.5-5.5VDC	9VDC	111	12	79%
CTDD1210D-0512S-1	5VDC	4.5-5.5VDC	12VDC	83	9	80%
CTDD1210D-0515S-1	5VDC	4.5-5.5VDC	15VDC	67	7	78%
CTDD1210D-1205S-1	12VDC	10.8-13.2VDC	5VDC	200	20	78%
CTDD1210D-1209S-1	12VDC	10.8-13.2VDC	9VDC	111	12	80%
CTDD1210D-1212S-1	12VDC	10.8-13.2VDC	12VDC	83	9	81%
CTDD1210D-1215S-1	12VDC	10.8-13.2VDC	15VDC	67	7	79%
CTDD1210D-2405S-1	24VDC	21.6-26.4VDC	5VDC	200	20	79%
CTDD1210D-2409S-1	24VDC	21.6-26.4VDC	9VDC	111	12	80%
CTDD1210D-2412S-1	24VDC	21.6-26.4VDC	12VDC	83	9	81%
CTDD1210D-2415S-1	24VDC	21.6-26.4VDC	15VDC	67	7	79%

ISOLATION SPECIFICATIONS

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

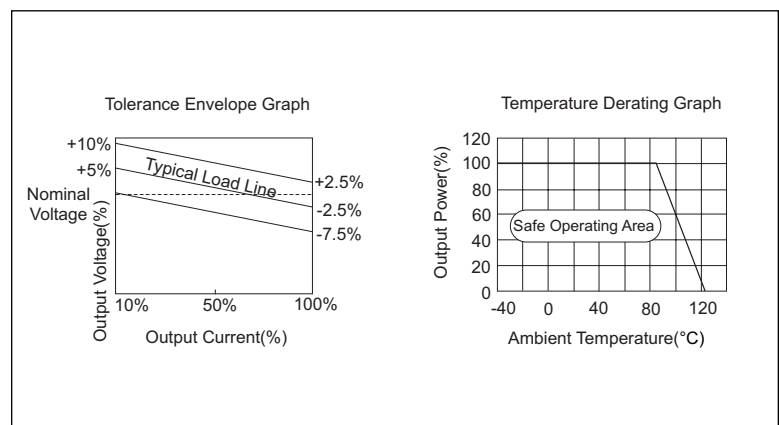
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1%			1.2	%
Load regulation	10% to 100% full load			15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		50	75	mVp-p
Switching frequency	Full load, nominal input	100	150	200	KHz

Note:

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

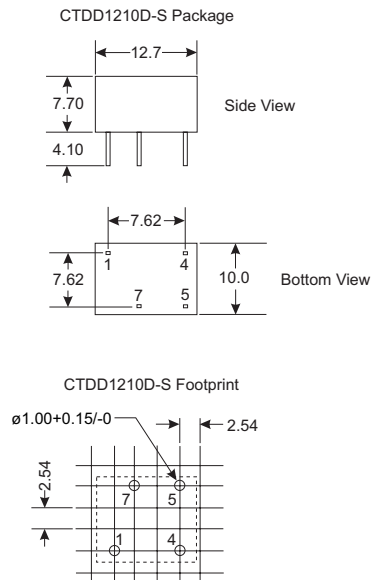
TYPICAL CHARACTERISTICS



CTDD1210D-S Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output

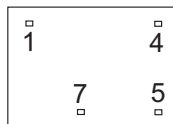
OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



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

PIN CONNECTIONS

Pin	Function
1	GND
4	Vin
5	+V
7	0V



12.08.04