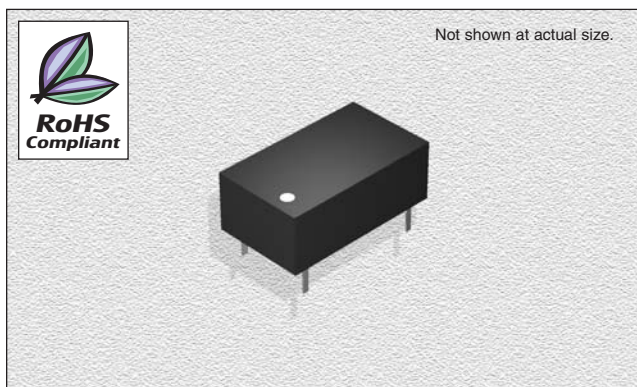


CTDD2010DF-DU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output



FEATURES

- Efficiency:** To 81%
- Temperature Range:** -40°C to +85°C
- Isolation:** 3KVDC
- Power Density:** 0.85W/cm³
- Package:** UL94-V0
- Miscellaneous:** No heat sink required. No external component required. Industry standard pinout. Positive & Negative Voltage Output. Small footprint. 14 PIN DIP Package.
- 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)
- MTBF:** >3,500,000 hours
- Miscellaneous:** RoHS Compliant.

SPECIFICATIONS

Part Number	V _{in} Nom. (VDC)	Input Range (VDC)	V _{out} (VDC)	I _{out} Max. (mA)	I _{out} Min. (mA)	Effi. Typ. (%)
CTDD2010DF-0505-DU3K-1	5	4.5-5.5	±5	±100	±10	72
CTDD2010DF-0509-DU3K-1	5	4.5-5.5	±9	±56	±6	75
CTDD2010DF-0512-DU3K-1	5	4.5-5.5	±12	±42	±5	78
CTDD2010DF-0515-DU3K-1	5	4.5-5.5	±15	±33	±4	79
CTDD2010DF-1205-DU3K-1	12	10.8-13.2	±5	±100	±10	74
CTDD2010DF-1209-DU3K-1	12	10.8-13.2	±9	±56	±6	76
CTDD2010DF-1212-DU3K-1	12	10.8-13.2	±12	±42	±5	79
CTDD2010DF-1215-DU3K-1	12	10.8-13.2	±15	±33	±4	80
CTDD2010DF-2405-DU3K-1	24	21.6-26.4	±5	±100	±10	74
CTDD2010DF-2409-DU3K-1	24	21.6-26.4	±9	±56	±6	76
CTDD2010DF-2412-DU3K-1	24	21.6-26.4	±12	±42	±5	80
CTDD2010DF-2415-DU3K-1	24	21.6-26.4	±15	±33	±4	81

ISOLATION SPECIFICATIONS

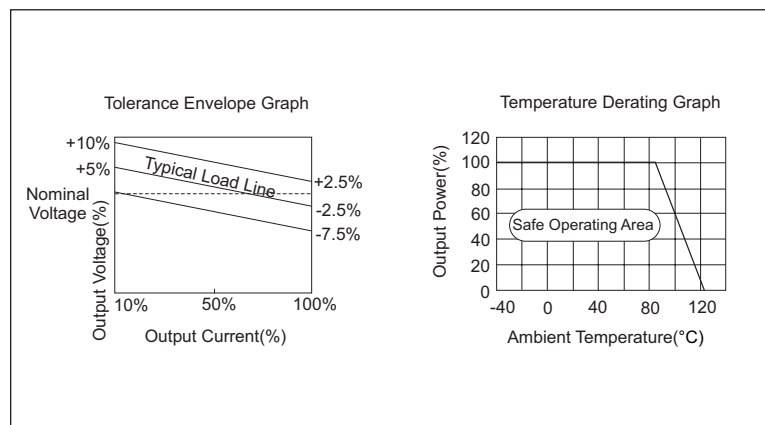
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	3000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

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

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

TYPICAL CHARACTERISTICS



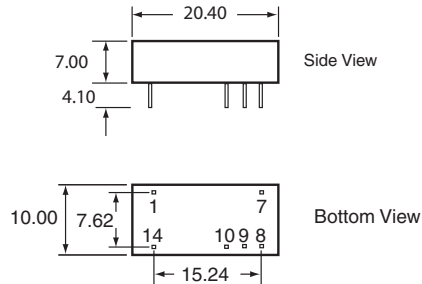
01.10.07

CTDD2010DF-DU3K-1 Series

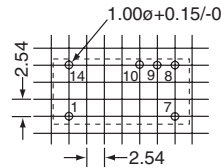
Fixed Input Isolated & Unregulated
1W Output, Dual Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

CTDD2010DF-DU3K-1 Package



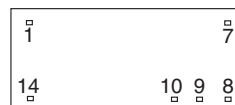
CTDD2010DF-DU3K-1 Footprint



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

PIN CONNECTIONS

Pin	Function
1	GND
7	NC
8	+Vo
9	0V
10	-Vo
14	Vin



01.10.07