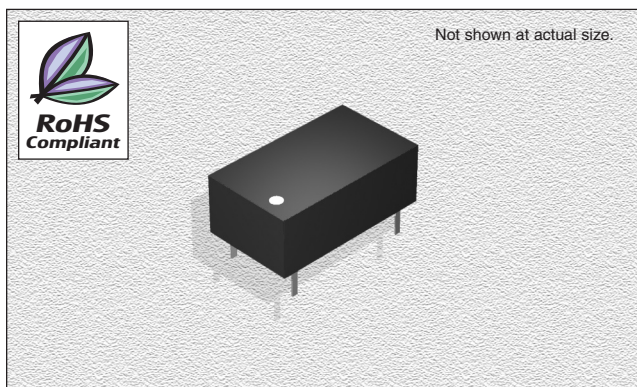


CTDD2010DF-T1K-2 Series

Fixed Input Isolated & Unregulated 2W Output, Twin Independent Output



FEATURES

- Efficiency:** To 87%
- Temperature Range:** -40°C to +85°C
- Isolation:** 1KVDC
- Package:** UL94-V0
- Miscellaneous:** No heat sink required. No external components required. Industry standard pinout. Twin Output Voltage. Super Miniature DIP package. 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
- No Load Power Consumption:** 10% nominal power (typical)
- 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	Vin Nom. (VDC)	Input Range (VDC)	Vo1,Vo2 (VDC)	Io1,Io2 Max. (mA)	Io1,Io2 Min. (mA)	Effi. Typ. (%)
CTDD2010DF-050505-T1K-2	5	4.5-5.5	5	200	20	82
CTDD2010DF-121515-T1K-2	12	10.8-13.2	15	67	7	86
CTDD2010DF-240505-T1K-2	24	21.6-26.4	5	200	20	84
CTDD2010DF-241515-T1K-2	24	21.6-26.4	15	67	7	87

ISOLATION SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	1000			VDC
Isolation Resistance(Vin/Vout)	Test at 500VDC	1000			MΩ
Isolation Resistance(Vo1/Vo2)	Test at 500VDC	1000			MΩ

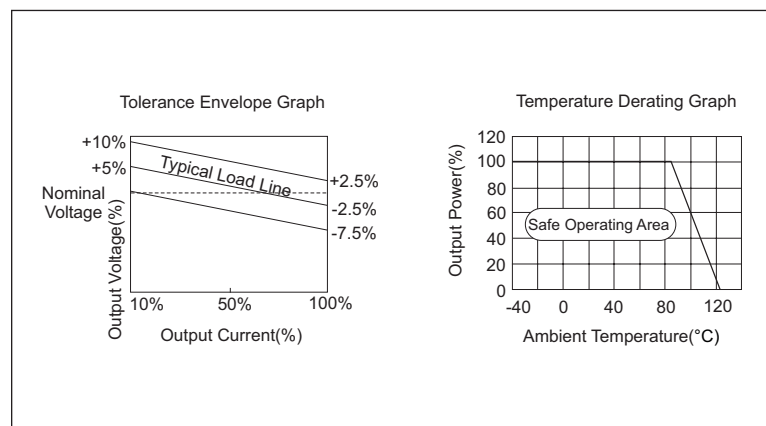
OUTPUT SPECIFICATIONS

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% full load			15	%
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		75		KHz

Note:

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

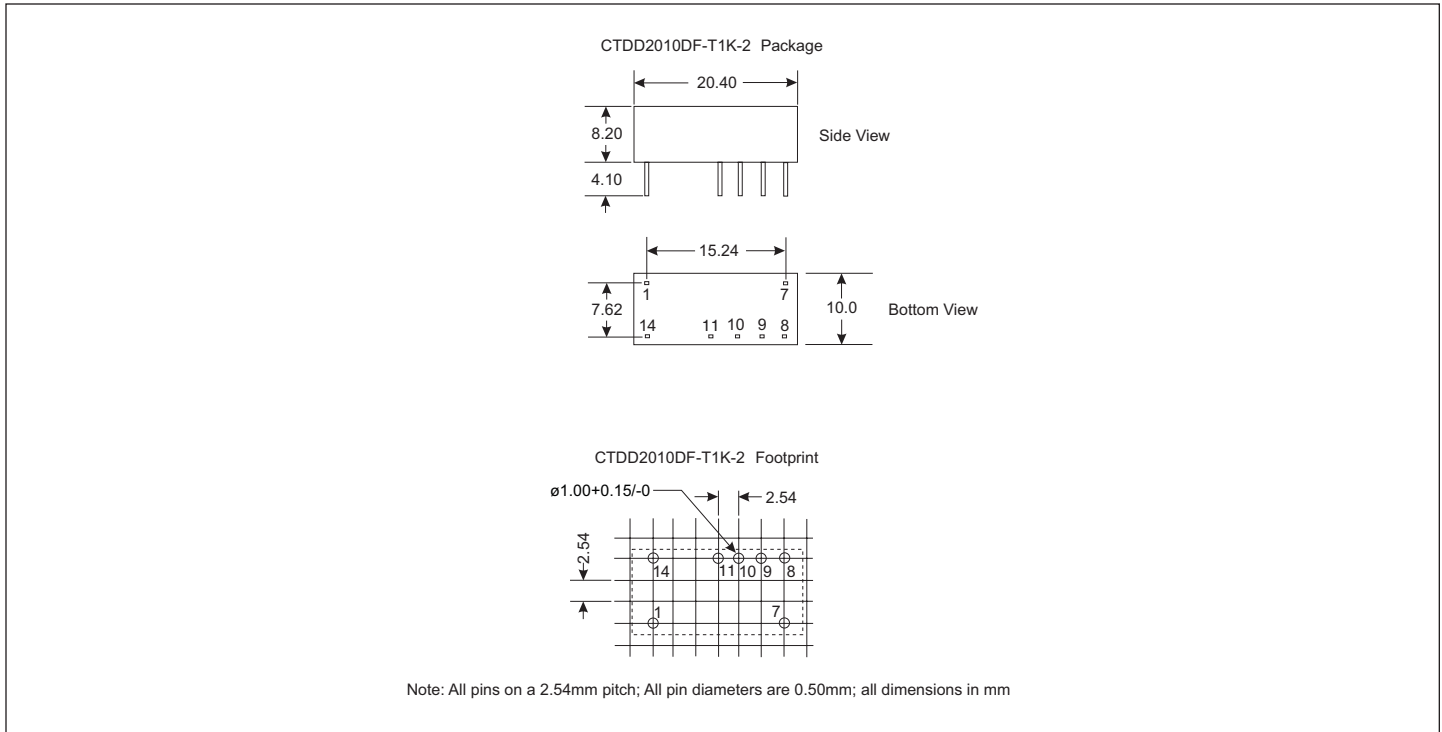
TYPICAL CHARACTERISTICS



CTDD2010DF-T1K-2 Series

Fixed Input Isolated & Unregulated
2W Output, Twin Independent Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

Pin	Function
1	GND
7	NC
8	+V02
9	0V2
10	+Vo1
11	0V1
14	Vin

