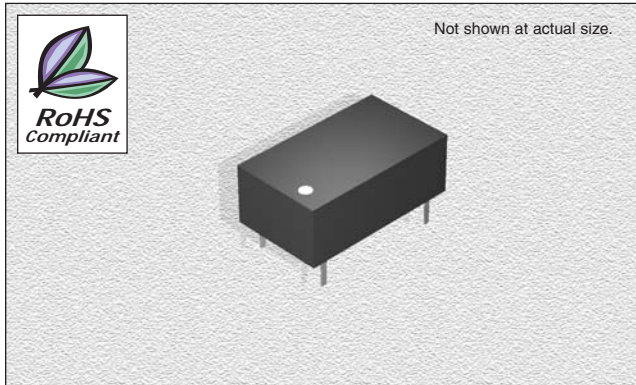


CTDD2010DF-DU3K-2 Series

Fixed Input Isolated & Unregulated
2W Output, Dual Output



FEATURES

- Efficiency:** To 82%
- Temperature Range:** -40°C to +85°C
- Isolation:** 3KVDC
- Power Density:** 1.42W/cm³
- Package:** UL94-V0
- Miscellaneous:** No heat sink required. No external component required. Industry standard pinout. Positive & Negative Voltage Output. Small footprint. Full 2 watt output power. 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:** 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)	Vout (VDC)	Iout Max. (mA)	Iout Min. (mA)	Effi. Typ. (%)
CTDD2010DF-0505-DU3K-2	5	4.5-5.5	5	±200	±20	82
CTDD2010DF-0509-DU3K-2	5	4.5-5.5	9	±111	±12	83
CTDD2010DF-0512-DU3K-2	5	4.5-5.5	12	±83	±9	85
CTDD2010DF-0515-DU3K-2	5	4.5-5.5	15	±67	±7	85
CTDD2010DF-1205-DU3K-2	12	10.8-13.2	5	±200	±20	83
CTDD2010DF-1209-DU3K-2	12	10.8-13.2	9	±111	±12	84
CTDD2010DF-1212-DU3K-2	12	10.8-13.2	12	±83	±9	86
CTDD2010DF-1215-DU3K-2	12	10.8-13.2	15	±67	±7	86
CTDD2010DF-2405-DU3K-2	24	21.6-26.4	5	±200	±20	84
CTDD2010DF-2409-DU3K-2	24	21.6-26.4	9	±111	±12	85
CTDD2010DF-2412-DU3K-2	24	21.6-26.4	12	±83	±9	87
CTDD2010DF-2415-DU3K-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	3000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

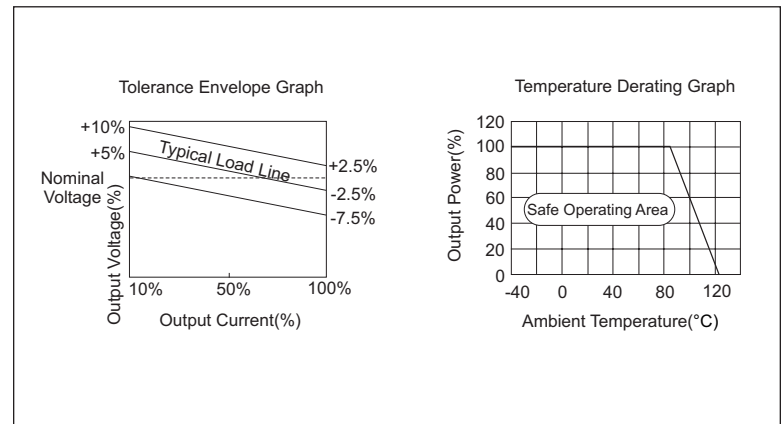
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
2W Output Power		0.2		2	W
Line regulation	For Vin 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
2W Output ripple	20MHz Bandwidth		100	150	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

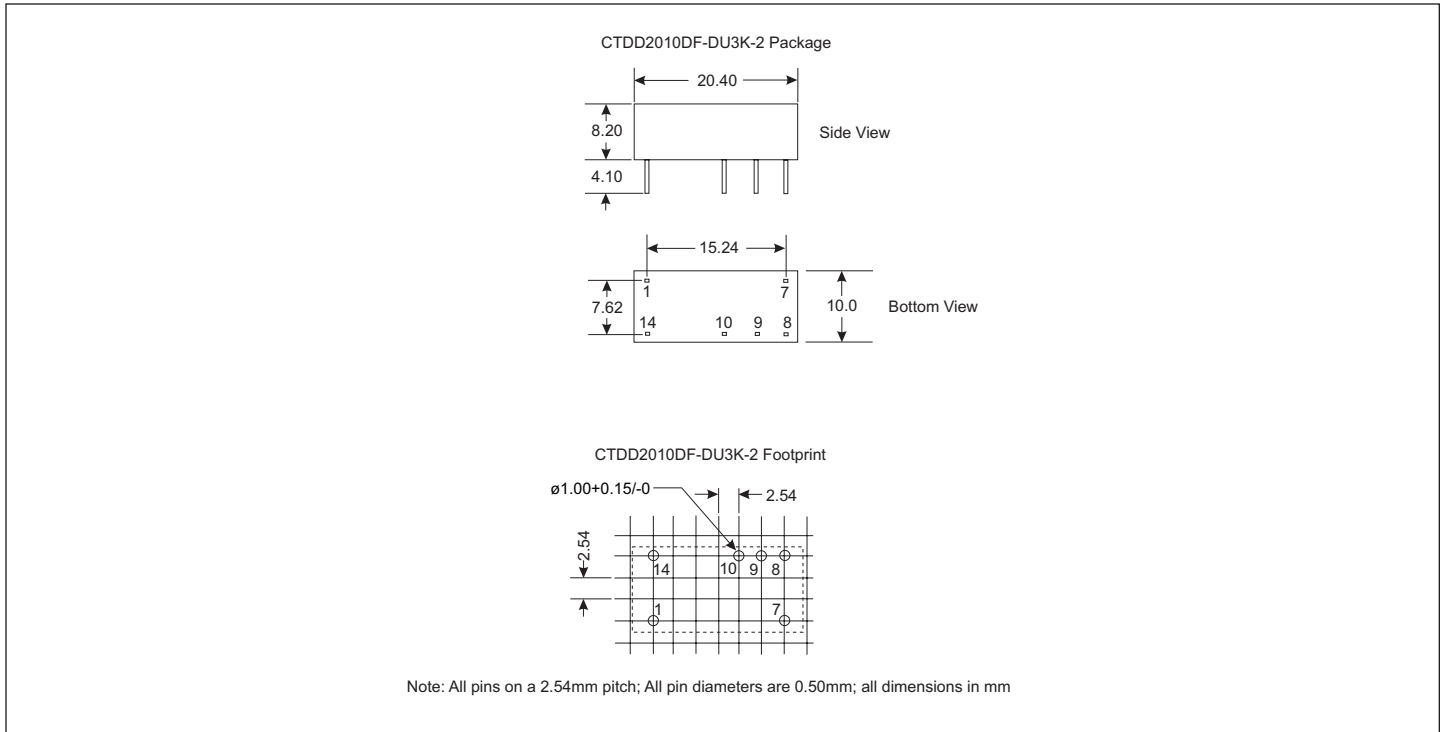


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CTDD2010DF-DU3K-2 Series

Fixed Input Isolated & Unregulated
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OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

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



08.07.06