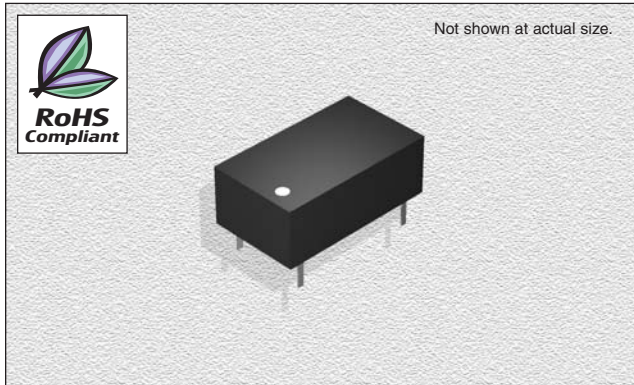


CTDD2010DF-SU3K-2 Series

Fixed Input Isolated & Unregulated
2W Output, Single Output



FEATURES

Efficiency: To 86%
Temperature Range: -40°C to +85°C
Isolation: 3KVDC
Package: UL94-V0
Miscellaneous: Single Output Voltage. No external component required. No heat sink required. Industry standard pinout. DIP package style. Small Footprint. Power Density 1.42W/cm³. PCB Mounting.
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)	Vin Range (VDC)	Voltage Out (VDC)	Io Max. (mA)	Io Min. (mA)	Effi. Typ. (%)
CTDD2010DF-0503-SU3K-2	5	4.5-5.5	3.3	606	61	65
CTDD2010DF-0505-SU3K-2	5	4.5-5.5	5	400	40	80
CTDD2010DF-0509-SU3K-2	5	4.5-5.5	9	222	22.2	81
CTDD2010DF-0512-SU3K-2	5	4.5-5.5	12	167	16.7	82
CTDD2010DF-0515-SU3K-2	5	4.5-5.5	15	133	13.3	84
CTDD2010DF-1205-SU3K-2	12	10.8-13.2	5	400	40	80
CTDD2010DF-1209-SU3K-2	12	10.8-13.2	9	222	22.2	83
CTDD2010DF-1212-SU3K-2	12	10.8-13.2	12	167	16.7	84
CTDD2010DF-1215-SU3K-2	12	10.8-13.2	15	133	13.3	85
CTDD2010DF-2405-SU3K-2	24	21.6-26.4	5	400	40	81
CTDD2010DF-2409-SU3K-2	24	21.6-26.4	9	222	22.2	84
CTDD2010DF-2412-SU3K-2	24	21.6-26.4	12	167	16.7	85
CTDD2010DF-2415-SU3K-2	24	21.6-26.4	15	133	13.3	86

ISOLATION SPECIFICATIONS

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

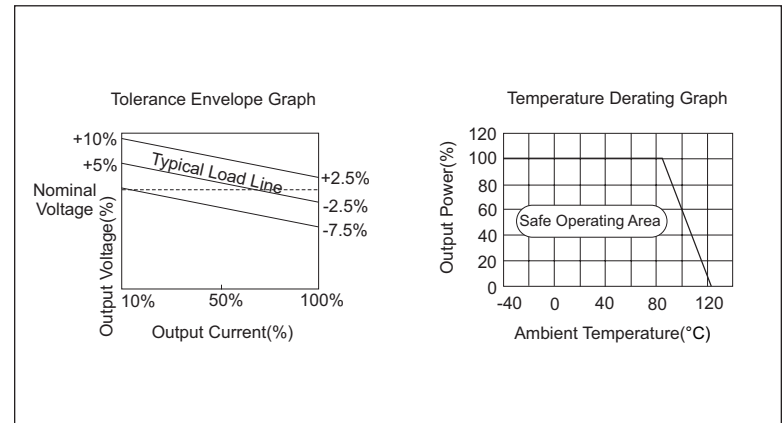
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.2		2	W
Line regulation	For Vin change of 1%			1.5	%
Load regulation	10% to 100% full load		10	15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Ripple & Noise	20Hz Bandwidth		100	200	mVp-p
Switching frequency	Full load, nominal input voltage		75		KHz

Note:

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

TYPICAL CHARACTERISTICS

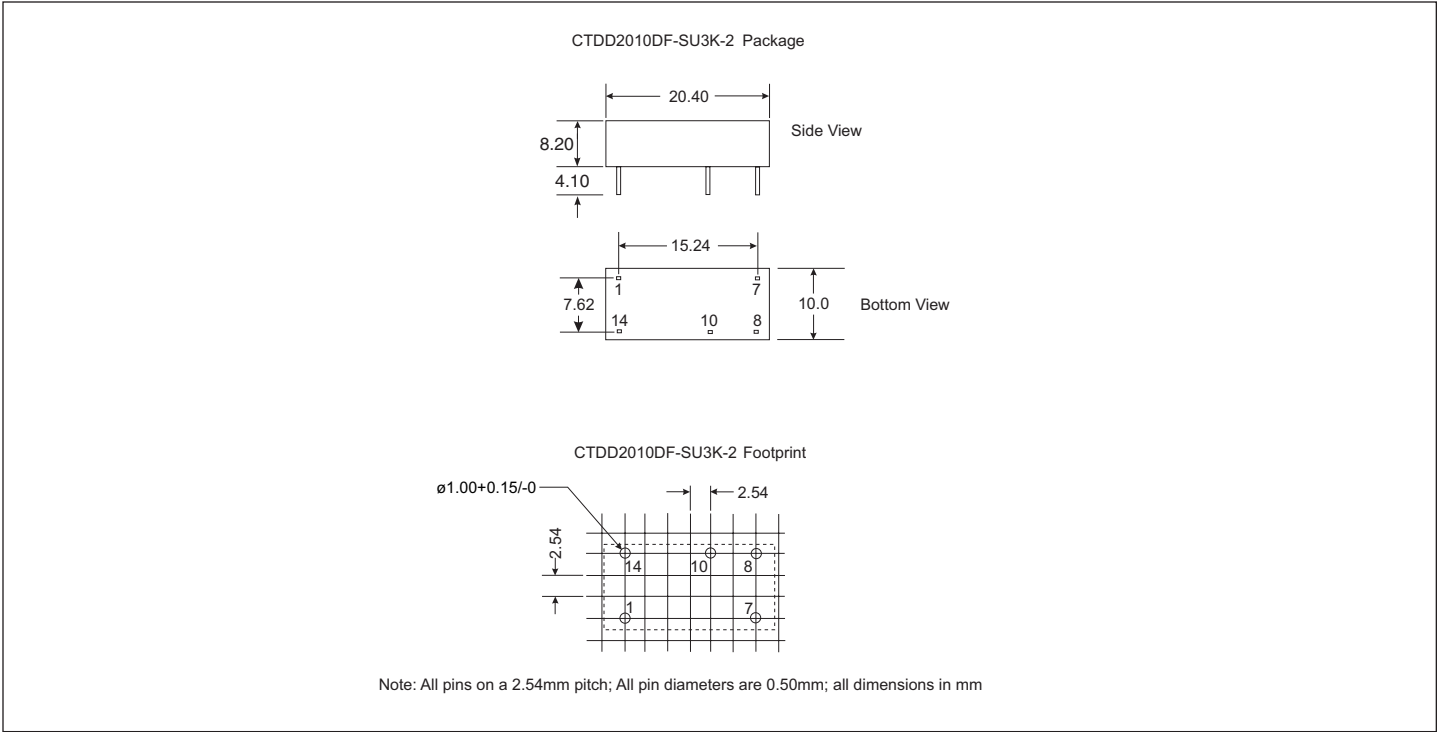


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CTDD2010DF-SU3K-2 Series

Fixed Input Isolated & Unregulated
2W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

Pin	Function
1	GND
7	NC
8	+Vo
10	OV
14	Vin