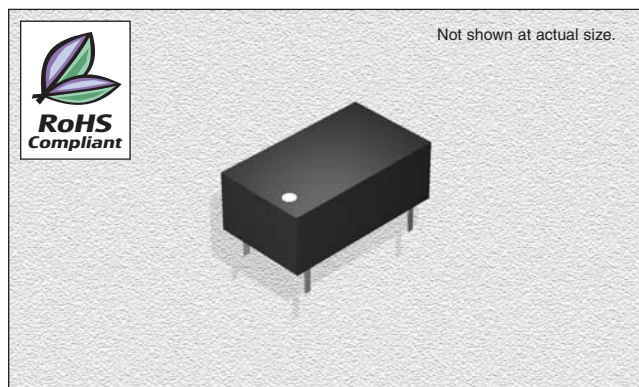


CTDD2010DF-SU1K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Single Output



FEATURES

Efficiency: To 81%

Temperature Range: -40°C to 85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: Single Output Voltage. DIP Package. Fixed input voltage. No heat sink required. No external component required. Industry standard pinout. Unregulated output voltage. Small Footprint. 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

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-0303-SU1K-1	3.3	3.0-3.6	3.3	300	30	72
CTDD2010DF-0305-SU1K-1	3.3	3.0-3.6	5	200	20	73
CTDD2010DF-0503-SU1K-1	5	4.5-5.5	3.3	300	30	74
CTDD2010DF-0505-SU1K-1	5	4.5-5.5	5	200	20	72
CTDD2010DF-0509-SU1K-1	5	4.5-5.5	9	111	12	74
CTDD2010DF-0512-SU1K-1	5	4.5-5.5	12	83	9	77
CTDD2010DF-0515-SU1K-W75	5	4.5-5.5	15	50	5	68
CTDD2010DF-0515-SU1K-1	5	4.5-5.5	15	67	7	79
CTDD2010DF-1203-SU1K-1	12	10.8-13.2	3.3	300	30	75
CTDD2010DF-1205-SU1K-1	12	10.8-13.2	5	200	20	73
CTDD2010DF-1209-SU1K-1	12	10.8-13.2	9	111	12	75
CTDD2010DF-1212-SU1K-1	12	10.8-13.2	12	83	9	79
CTDD2010DF-1215-SU1K-1	12	10.8-13.2	15	67	7	80
CTDD2010DF-2403-SU1K-1	24	21.6-26.4	3.3	300	30	76
CTDD2010DF-2405-SU1K-1	24	21.6-26.4	5	200	20	74
CTDD2010DF-2409-SU1K-1	24	21.6-26.4	9	111	12	76
CTDD2010DF-2412-SU1K-1	24	21.6-26.4	12	83	9	80
CTDD2010DF-2415-SU1K-1	24	21.6-26.4	15	67	7	81

ISOLATION SPECIFICATIONS

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

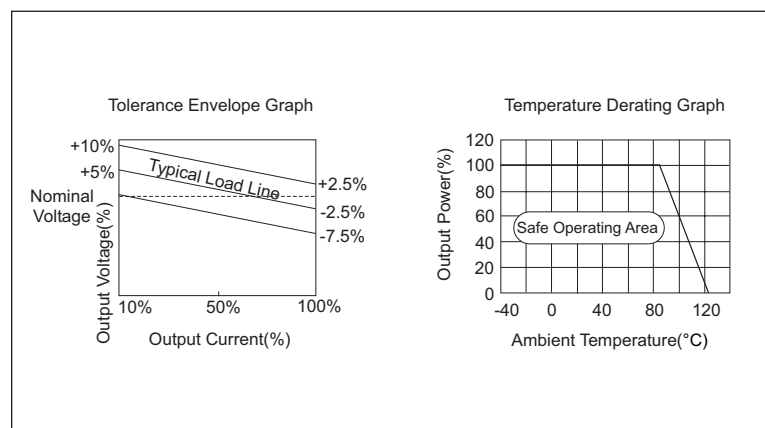
OUTPUT SPECIFICATIONS

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		10	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		KHz

Note:

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

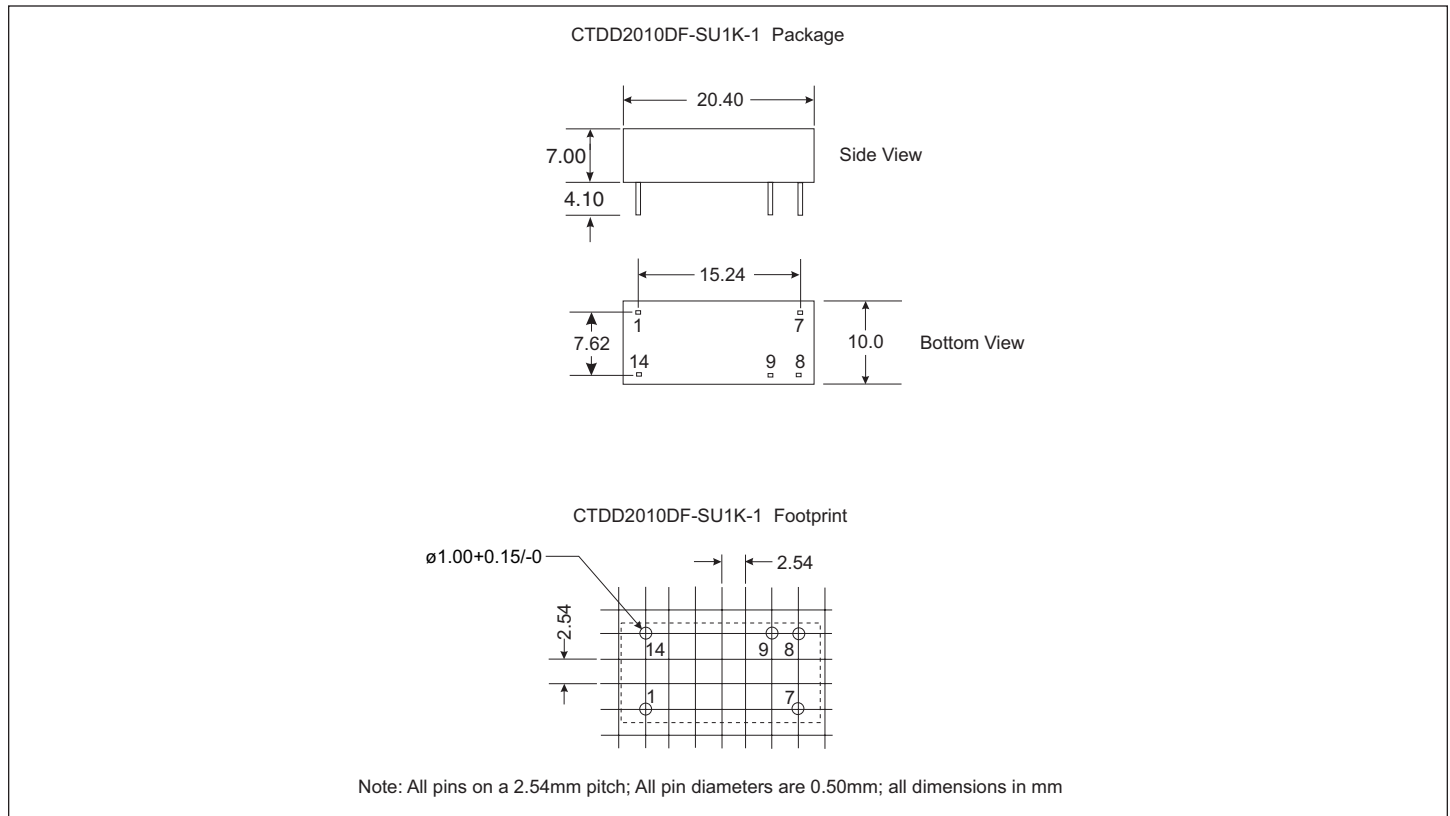
TYPICAL CHARACTERISTICS



CTDD2010DF-SU1K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

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

