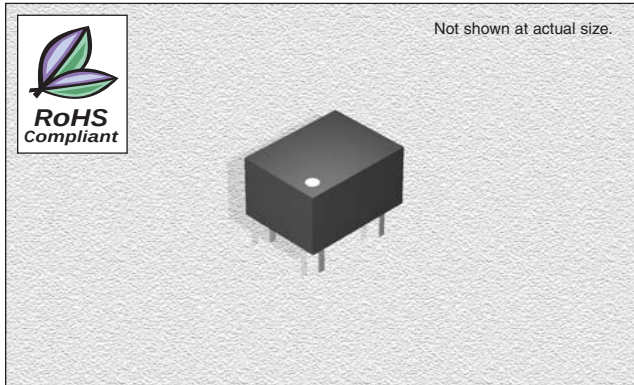


CTDD1210DF-TU1K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Twin Independent Output



FEATURES

Efficiency: To 80%

Temperature Range: -40°C to +85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: No heat sink required. No external components required. Industry standard pinout. Super miniature DIP package. Twin Output Voltage. 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 Max. (mA)	Io2 Min. (mA)	Effi. Typ. (%)
CTDD1210DF-050505-TU1K-1	5	4.5-5.5	5	100	10	72
CTDD1210DF-050909-TU1K-1	5	4.5-5.5	9	56	6	75
CTDD1210DF-051212-TU1K-1	5	4.5-5.5	12	42	4	78
CTDD1210DF-051515-TU1K-1	5	4.5-5.5	15	33	3	79
CTDD1210DF-120505-TU1K-1	12	10.8-13.2	5	100	10	74
CTDD1210DF-120909-TU1K-1	12	10.8-13.2	9	56	6	76
CTDD1210DF-121212-TU1K-1	12	10.8-13.2	12	42	4	79
CTDD1210DF-121515-TU1K-1	12	10.8-13.2	15	33	3	80
CTDD1210DF-240505-TU1K-1	24	21.6-26.4	5	100	10	74
CTDD1210DF-240909-TU1K-1	24	21.6-26.4	9	56	6	76
CTDD1210DF-241212-TU1K-1	24	21.6-26.4	12	42	4	80
CTDD1210DF-241515-TU1K-1	24	21.6-26.4	15	33	3	81

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

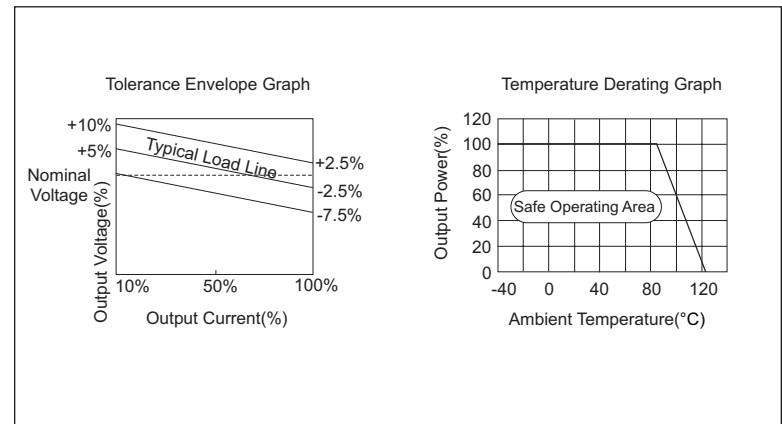
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	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		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 unless otherwise specified.

TYPICAL CHARACTERISTICS



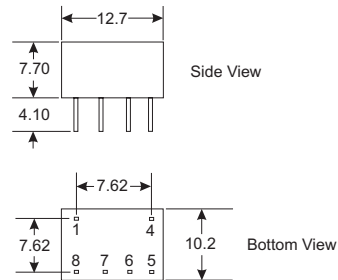
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CTDD1210DF-TU1K-1 Series

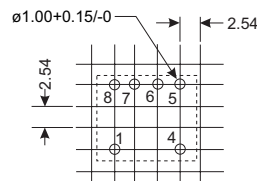
Fixed Input Isolated & Unregulated
1W Output, Twin Independent Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

CTDD1210DF-TU1K-1 Package



CTDD1210DF-TU1K-1 Footprint



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

PIN CONNECTIONS

Pin	Function
1	GND
4	Vin
5	+Vo1
6	0V1
7	+Vo2
8	0V2

