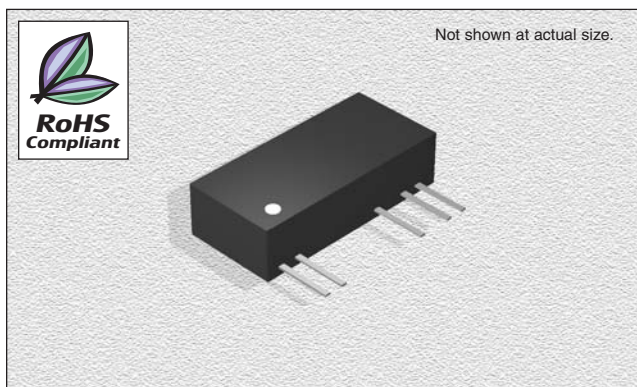


CTDD2710SF-D1K-1 Series

Fixed Input Isolated & Regulated
1W Output, Dual Output

**FEATURES**

Efficiency: To 66%

Temperature Range: -40°C to 85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: Dual Output. No heat sink required. No external component required. Industry standard pinout. Power density 0.38W/cm³. Small footprint. SIP Package Style.

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. (%)
CTDD2710SF-0505-D1K-1	5	4.75-5.25	±5	±100	±10	54
CTDD2710SF-0509-D1K-1	5	4.75-5.25	±9	±56	±6	56
CTDD2710SF-0512-D1K-1	5	4.75-5.25	±12	±42	±5	58
CTDD2710SF-0515-D1K-1	5	4.75-5.25	±15	±33	±4	64
CTDD2710SF-1205-D1K-1	12	11.4-12.6	±5	±100	±10	56
CTDD2710SF-1209-D1K-1	12	11.4-12.6	±9	±56	±6	60
CTDD2710SF-1212-D1K-1	12	11.4-12.6	±12	±42	±5	67
CTDD2710SF-1215-D1K-1	12	11.4-12.6	±15	±33	±4	65
CTDD2710SF-1515-D1K-1	15	14.2-15.8	±15	±33	±4	65
CTDD2710SF-2405-D1K-1	24	22.8-25.2	±5	±100	±10	57
CTDD2710SF-2409-D1K-1	24	22.8-25.2	±9	±56	±6	63
CTDD2710SF-2412-D1K-1	24	22.8-25.2	±12	±42	±5	65
CTDD2710SF-2415-D1K-1	24	22.8-25.2	±15	±33	±4	66

ISOLATION SPECIFICATIONS

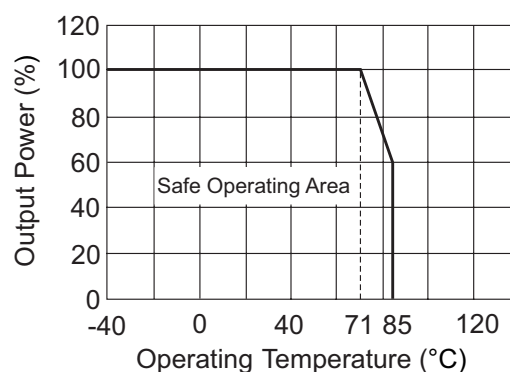
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	1000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of ±5%			0.25	%
Load regulation	10% to 100% full load			1	%
Output voltage accuracy	100% full load			±3	%
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz bandwidth		10	15	mVp-p
Output noise	20MHz bandwidth		50	100	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.

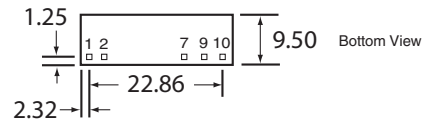
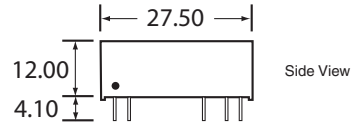
TYPICAL CHARACTERISTICS

CTDD2710SF-D1K-1 Series

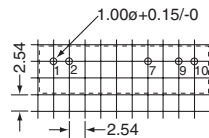
Fixed Input Isolated & Regulated
1W Output, Dual Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

CTDD2710SF-D1K-1 Package



CTDD2710SF-D1K-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	Vin
2	GND
7	+Vo
9	-Vo
10	0V

