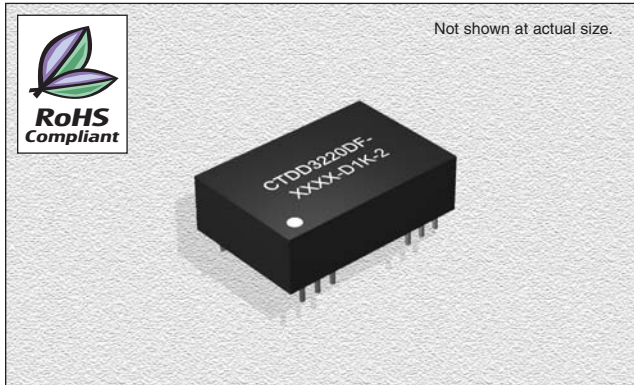


CTDD3220DF-D1K-2 Series

Fixed Input Isolated & Regulated

2W Output, Dual Output



FEATURES

- Efficiency:** To 71%
- Temperature Range:** -40°C to +85°C
- Isolation:** 1KVDC
- Package:** UL94-V0
- Miscellaneous:** Dual Voltage Output. No heat sink required. Industry standard pinout. DIP package style. Small Footprint. Power Density 0.33W/cm³. No external components required. 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)	Vin Range (VDC)	Voltage Out (VDC)	Io Max. (mA)	Io Min. (mA)	Effi. Typ. (%)
CTDD3220DF-0509-D1K-2	5	4.75-5.25	±9	±100	±10	61
CTDD3220DF-0512-D1K-2	5	4.75-5.25	±12	±83	±9	65
CTDD3220DF-0515-D1K-2	5	4.75-5.25	±15	±67	±7	69
CTDD3220DF-1209-D1K-2	12	11.4-12.4	±9	±110	±11	63
CTDD3220DF-1212-D1K-2	12	11.4-12.4	±12	±83	±9	66
CTDD3220DF-1215-D1K-2	12	11.4-12.4	±15	±67	±7	70
CTDD3220DF-2409-D1K-2	24	22.8-25.2	±9	±110	±11	65
CTDD3220DF-2412-D1K-2	24	22.8-25.2	±12	±83	±9	67
CTDD3220DF-2415-D1K-2	24	22.8-25.2	±15	±67	±7	71

ISOLATION SPECIFICATIONS

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

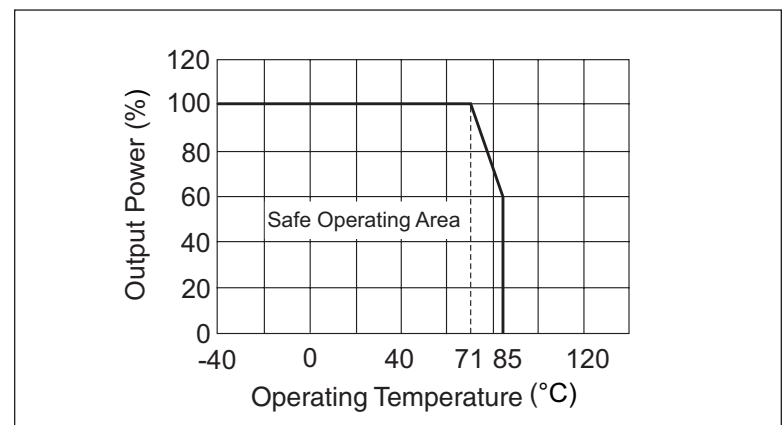
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.2		2	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		20	30	mVp-p
Output noise	20MHz Bandwidth		75	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

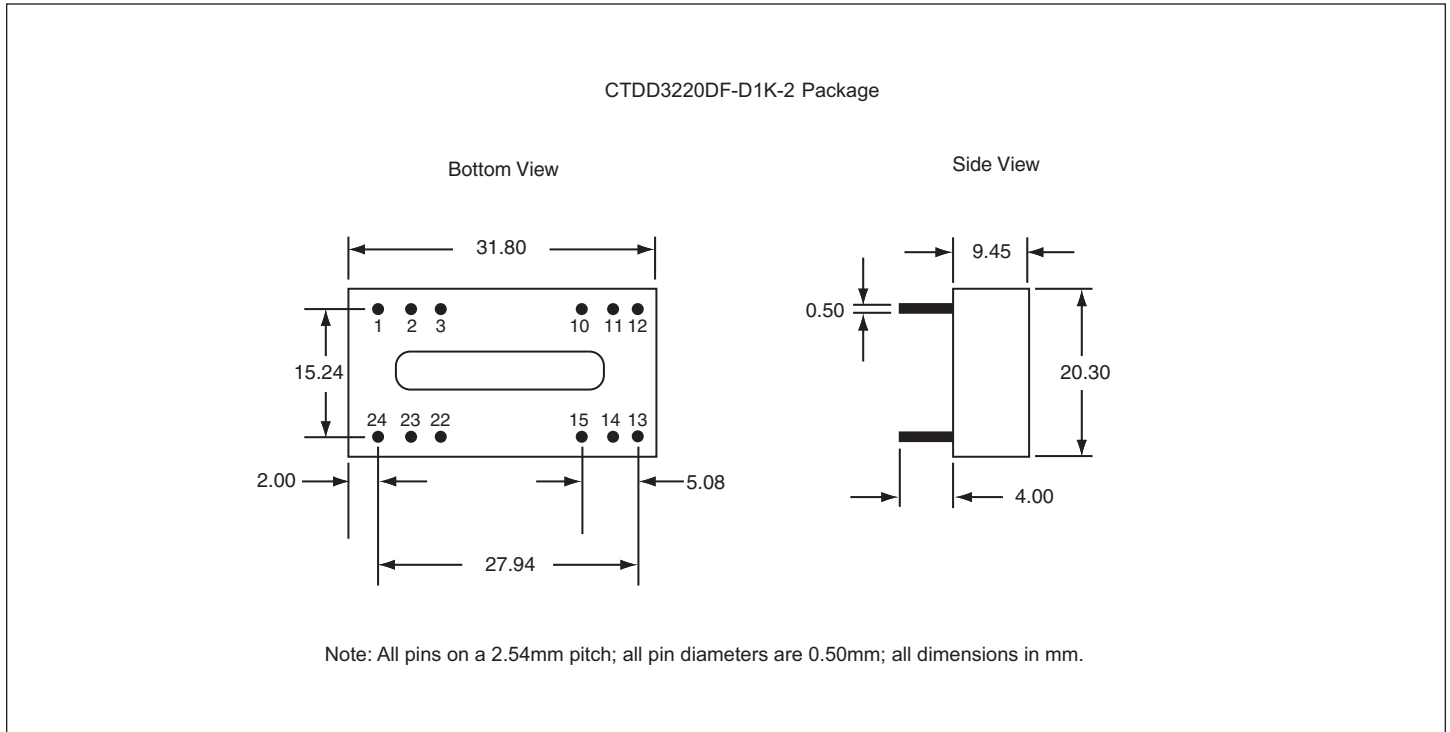


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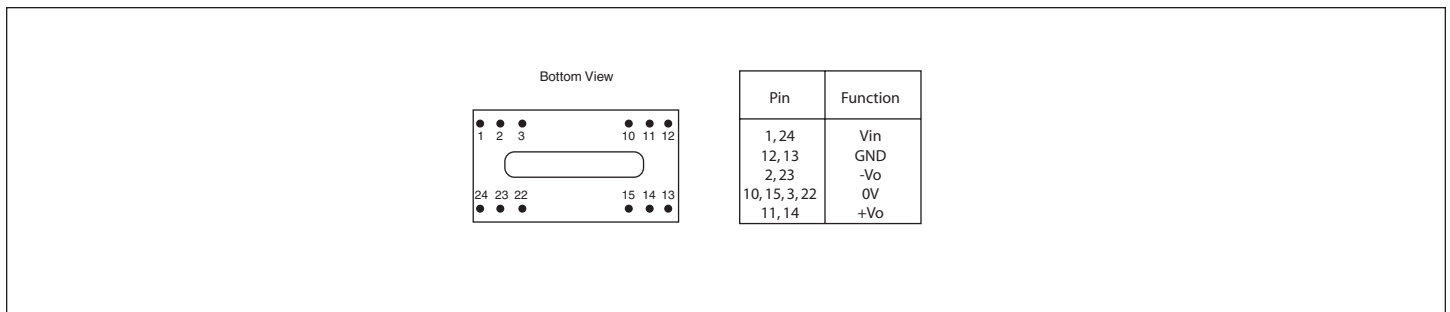
CTDD3220DF-D1K-2 Series

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OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS



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