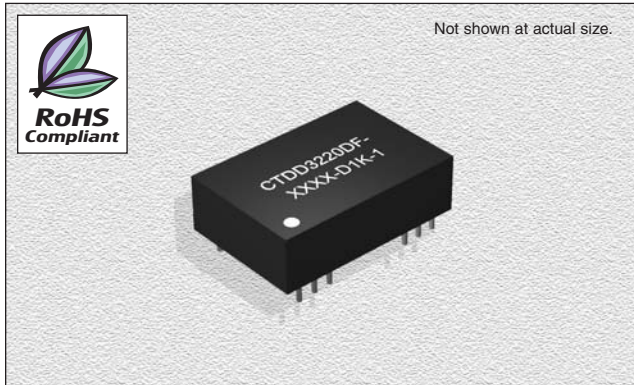


## CTDD3220DF-D1K-1 Series

### Fixed Input Isolated & Regulated

### 1W Output, Dual Output



### FEATURES

- Efficiency:** To 65%
- Temperature Range:** -40°C to +85°C
- Isolation:** 1KVDC
- Package:** UL94-V0
- Miscellaneous:** No external component required. No heat sink required. Low ripple and good EMC features. Good dynamic feature
- 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-0512-D1K-1	5	4.75-5.25	±12	±42	±5	64
CTDD3220DF-0515-D1K-1	5	4.75-5.25	±15	±33	±4	65
CTDD3220DF-1212-D1K-1	12	11.4-12.6	±12	±42	±5	64
CTDD3220DF-1215-D1K-1	12	11.4-12.6	±15	±33	±4	65
CTDD3220DF-2412-D1K-1	24	22.8-25.2	±12	±42	±5	64
CTDD3220DF-2415-D1K-1	24	22.8-25.2	±15	±33	±4	62

### ISOLATION SPECIFICATIONS

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

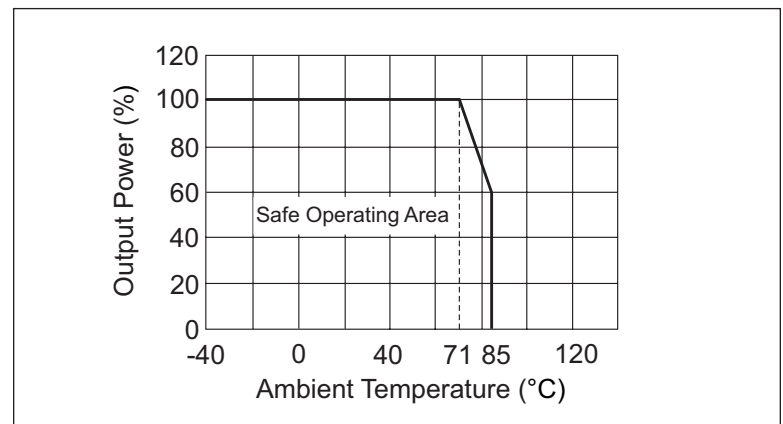
### OUTPUT SPECIFICATIONS

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			±0.5	%
Output voltage accuracy	100% full load			±3	%
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		10	20	mVp-p
Output noise	20MHz Bandwidth		50	100	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

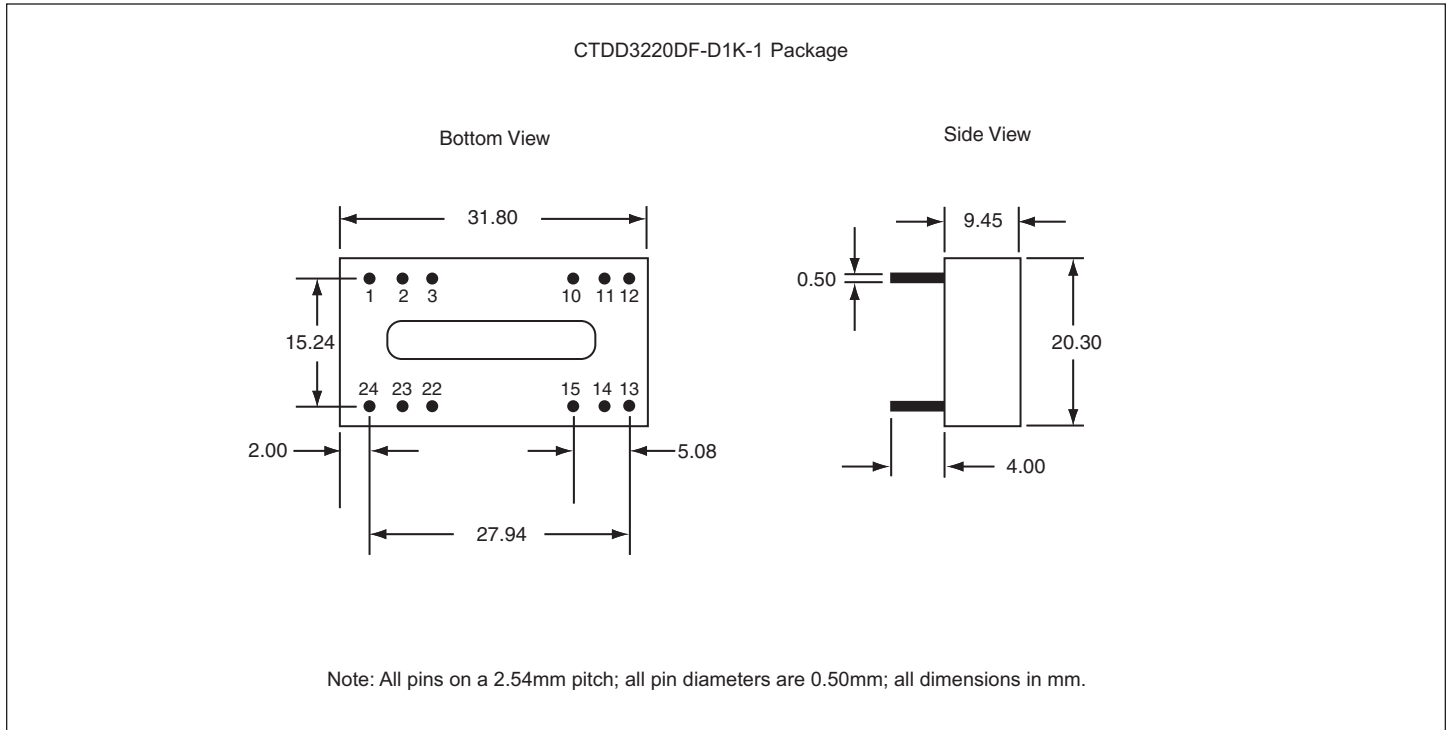


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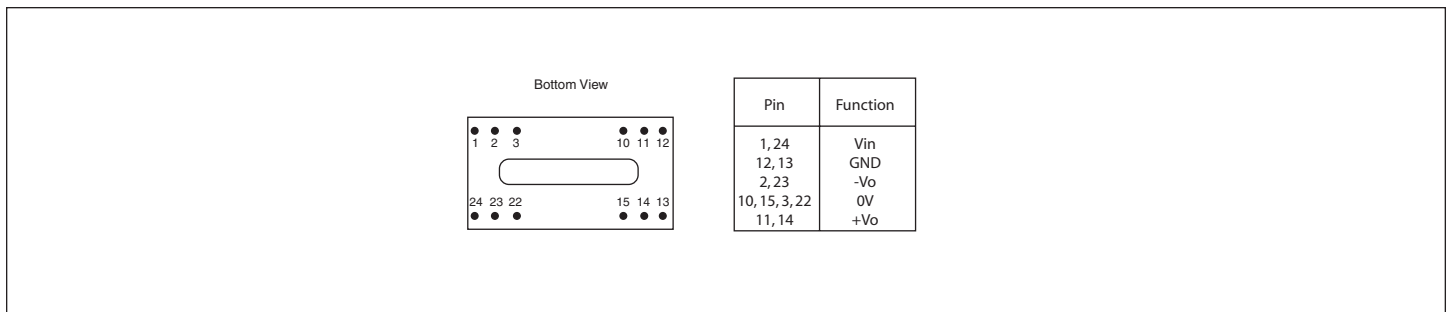
## CTDD3220DF-D1K-1 Series

Fixed Input Isolated & Regulated  
1W Output, Dual Output

### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



### PIN CONNECTIONS



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