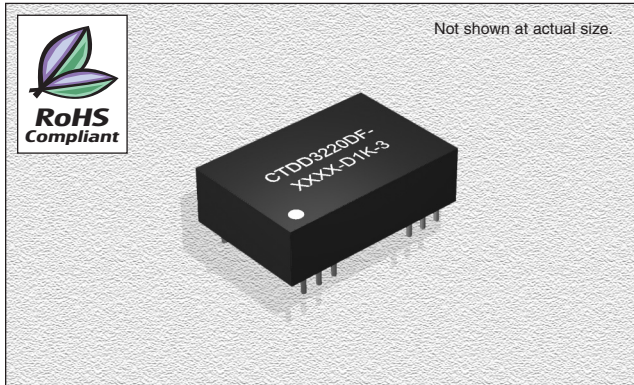


## CTDD3220DF-D1K-3 Series

### Fixed Input Isolated & Regulated

### 3W Output, Dual Output



### FEATURES

- Efficiency:** To 72%
- Temperature Range:** -40°C to +85°C
- Isolation:** 1KVDC
- Package:** UL94-V0
- Miscellaneous:** No external component required. No heat sink required. Dual Output. Small Footprint. DIP Package Style. Industry Standard Pinout. Power Density 0.33W/cm<sup>3</sup>.
- 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-3	5	4.75-5.25	±12	±100	±10	71
CTDD3220DF-0515-D1K-3	5	4.75-5.25	±15	±100	±10	72
CTDD3220DF-1212-D1K-3	12	11.4-12.6	±12	±100	±10	71
CTDD3220DF-1215-D1K-3	12	11.4-12.6	±15	±100	±10	72

### ISOLATION SPECIFICATIONS

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

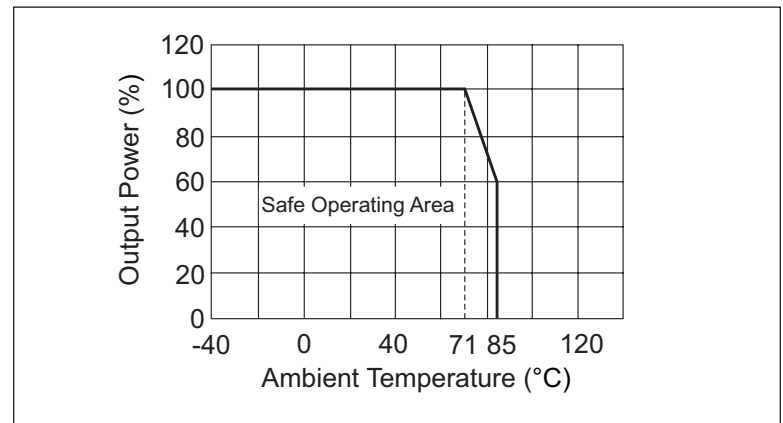
### OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.3		3	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		200	400	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.

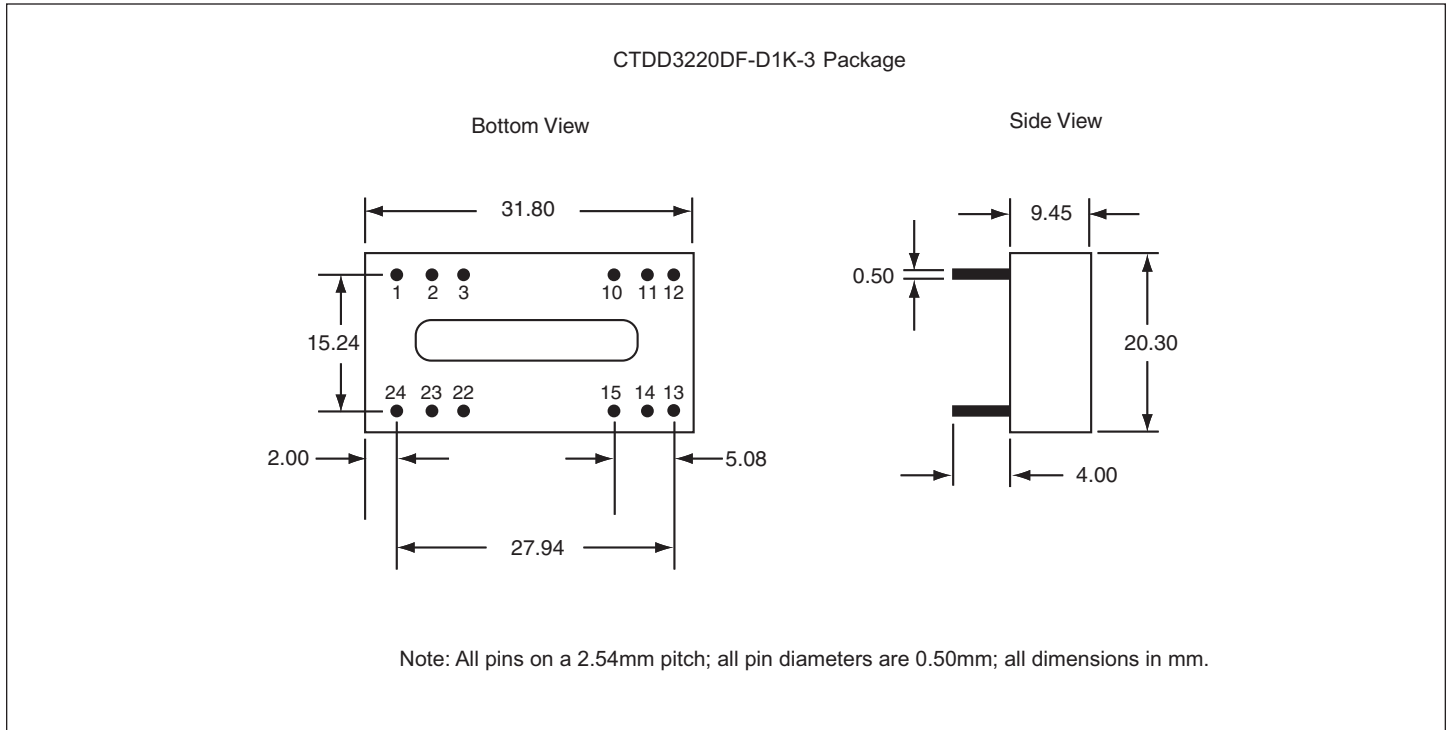
### TYPICAL CHARACTERISTICS



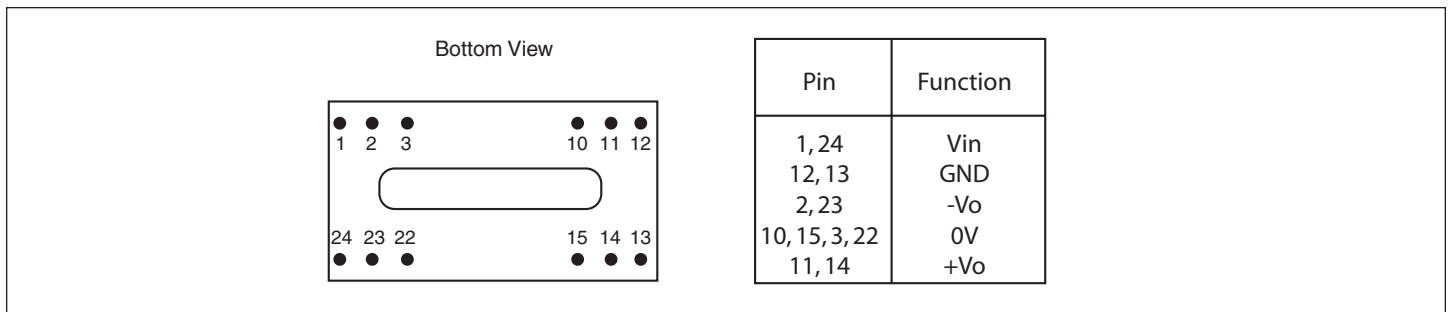
## CTDD3220DF-D1K-3 Series

Fixed Input Isolated & Regulated  
3W Output, Dual Output

### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



### PIN CONNECTIONS



01.19.07