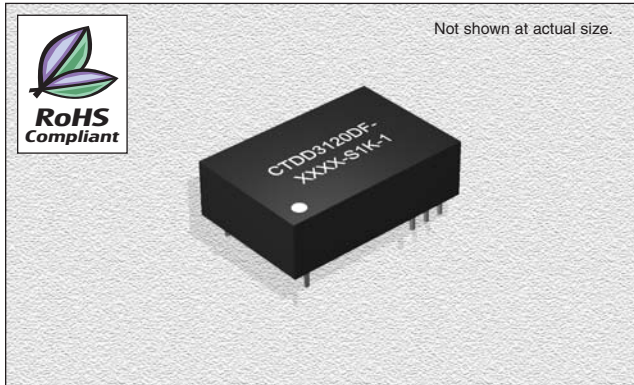


CTDD3120DF-S1K-1 Series

**Fixed Input Isolated & Regulated
1W Output, Single Output**

**FEATURES**

Efficiency: To 73%

Temperature Range: -40°C to 85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: Single Output Voltage. No heatsink required. No external components required. Industry standard pinout. Small footprint. Power Density 0.16W/cm³. 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

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. (%)
CTDD3120DF-0505-S1K-W75	5	4.75-5.25	5	150	15	69
CTDD3120DF-0509-S1K-1	5	4.75-5.25	9	110	11	70
CTDD3120DF-0512-S1K-1	5	4.75-5.25	12	83	9	71
CTDD3120DF-0515-S1K-1	5	4.75-5.25	15	67	7	72
CTDD3120DF-1205-S1K-W75	12	11.4-12.6	5	150	15	69
CTDD3120DF-1209-S1K-1	12	11.4-12.6	9	110	11	71
CTDD3120DF-1212-S1K-1	12	11.4-12.6	12	83	9	72
CTDD3120DF-1215-S1K-1	12	11.4-12.6	15	67	7	72
CTDD3120DF-2405-S1K-W75	24	22.8-25.2	5	150	15	70
CTDD3120DF-2409-S1K-1	24	22.8-25.2	9	110	11	72
CTDD3120DF-2412-S1K-1	24	22.8-25.2	12	83	9	73
CTDD3120DF-2415-S1K-1	24	22.8-25.2	15	67	7	73

ISOLATION SPECIFICATIONS

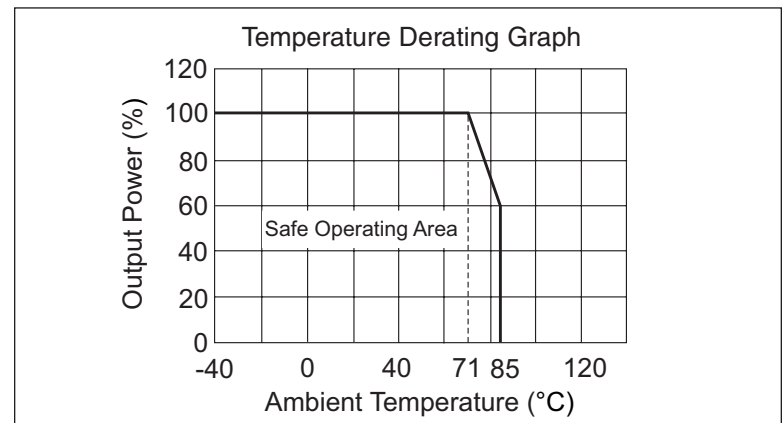
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	1000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1%			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
Switching frequency	Full load, nominal input		100		KHz

Note:

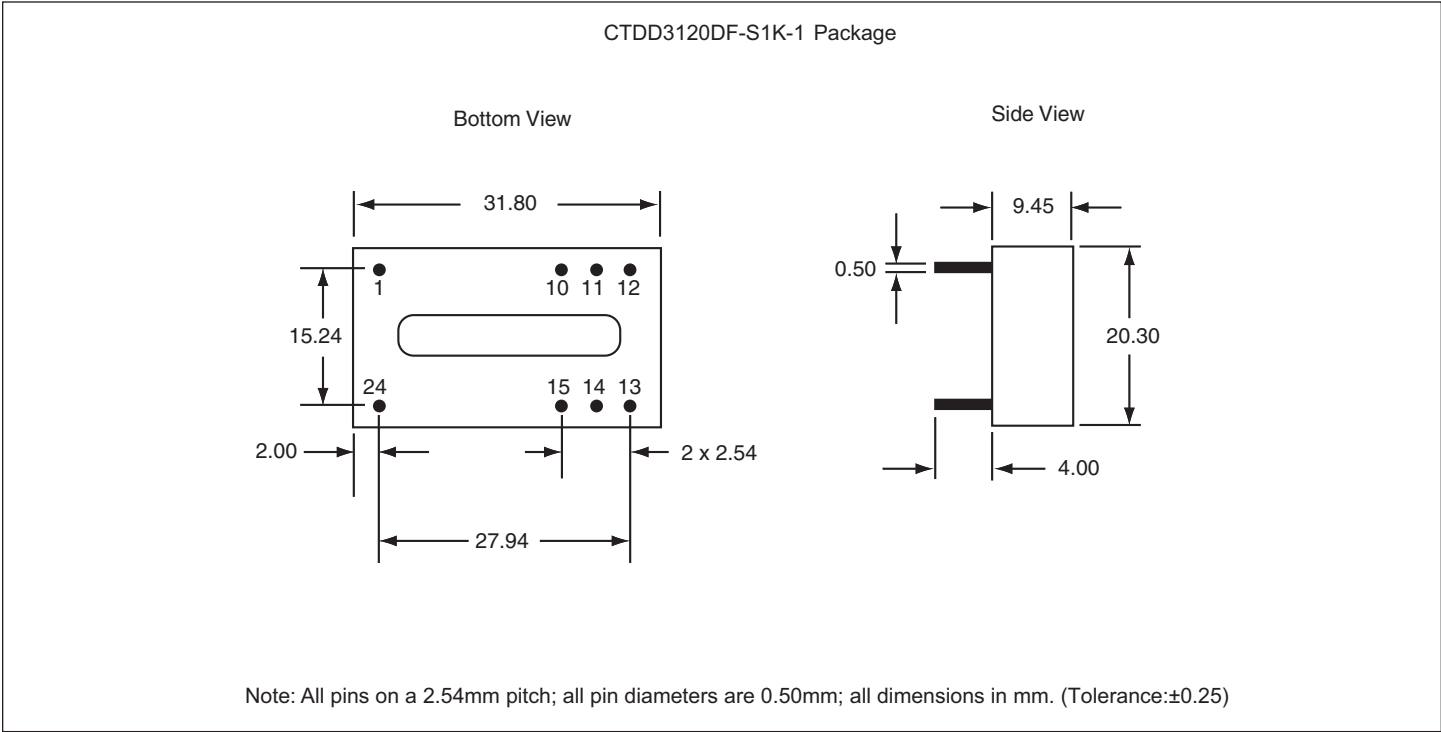
1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output unless otherwise specified.

TYPICAL CHARACTERISTICS

CTDD3120DF-S1K-1 Series

Fixed Input Isolated & Regulated
1W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

