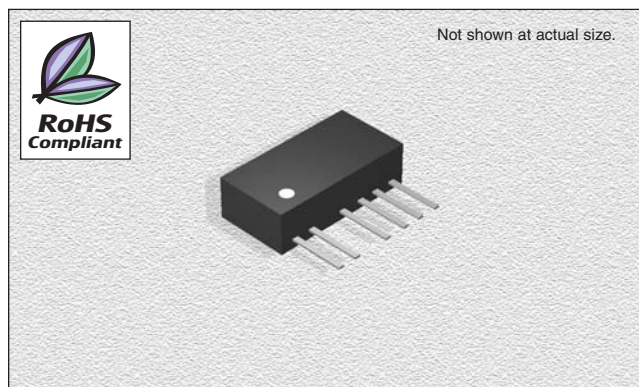


CTDD1907SF-TU3K-1 Series

**Fixed Input Isolated & Unregulated
1W Output, Twin Independent Output**

**FEATURES**

Efficiency: To 80%

Temperature Range: -40°C to +85°C

Isolation: 3KVDC

Package: UL94-V0

Miscellaneous: No heat sink required. No external components required. Industry standard pinout. Miniature SIP package. Twin Output Voltage. PCB Mounting. Optimized Volume 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

No Load, Power Consumption: 10% nominal power (typical)

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)	Vo1,Vo2 (VDC)	Io1 Max. (mA)	Io2 Min. (mA)	Effi. Typ. (%)
CTDD1907SF-0505-TU3K-1	5	4.5-5.5	5	100	10	72
CTDD1907SF-0509-TU3K-1	5	4.5-5.5	9	56	6	75
CTDD1907SF-0512-TU3K-1	5	4.5-5.5	12	42	4	78
CTDD1907SF-0515-TU3K-1	5	4.5-5.5	15	33	3	78
CTDD1907SF-1205-TU3K-1	12	10.8-13.2	5	100	10	74
CTDD1907SF-1209-TU3K-1	12	10.8-13.2	9	56	6	75
CTDD1907SF-1212-TU3K-1	12	10.8-13.2	12	42	4	79
CTDD1907SF-1215-TU3K-1	12	10.8-13.2	15	33	3	79
CTDD1907SF-2405-TU3K-1	24	21.6-26.4	5	100	10	74
CTDD1907SF-2409-TU3K-1	24	21.6-26.4	9	56	6	76
CTDD1907SF-2412-TU3K-1	24	21.6-26.4	12	42	4	79
CTDD1907SF-2415-TU3K-1	24	21.6-26.4	15	33	3	80

ISOLATION SPECIFICATIONS

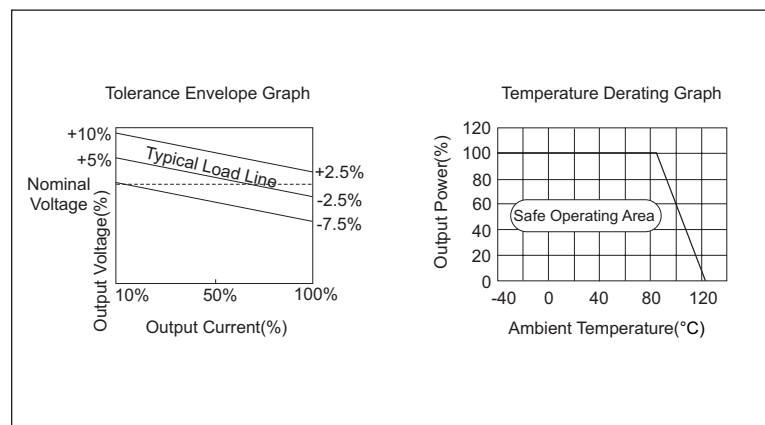
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage(Vin/Vout)	Tested for 1 minute	3000			VDC
Isolation Voltage(Vo1/Vo2)	Tested for 1 minute	3000			VDC
Isolation Resistance(Vin/Vout)	Test at 500VDC	1000			MΩ
Isolation Resistance(Vo1/Vo2)	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1%			1.2	%
Load regulation	10% to 100% full load			15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		75	150	mVp-p
Switching frequency	Full load, nominal input		100		KHz

Note:

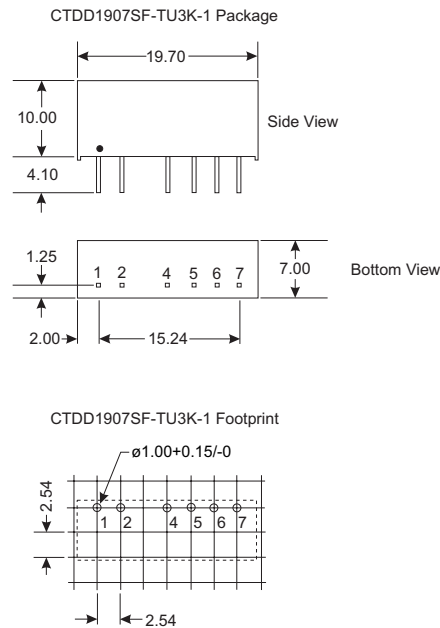
1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output unless otherwise specified.

TYPICAL CHARACTERISTICS

CTDD1907SF-TU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Twin Independent Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



Note: All pins on a 2.54mm pitch; all pin diameters are 0.50mm; all dimensions in mm.

PIN CONNECTIONS

Pin	Function
1	V _{in}
2	GND
4	0V1
5	+V _{o1}
6	0V2
7	+V _{o2}

