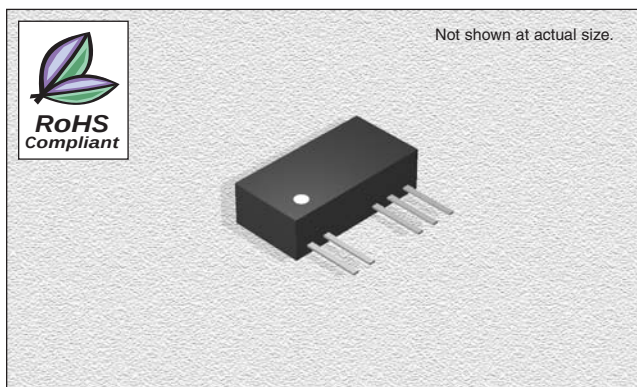


CTDD1906SF-DU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output



FEATURES

Efficiency: To 81%

Temperature Range: -40°C to +85°C

Isolation: 3KVDC

Power Density: 0.85W/cm³

Package: UL94-V0

Miscellaneous: No heat sink required. No external components required. Industry standard pinout. Positive & Negative Voltage Output. Small footprint. 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

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. (%)
CTDD1906SF-0505-DU3K-1	5	4.5-5.5	±5	±100	±10	72
CTDD1906SF-0509-DU3K-1	5	4.5-5.5	±9	±56	±6	75
CTDD1906SF-0512-DU3K-1	5	4.5-5.5	±12	±42	±5	78
CTDD1906SF-0515-DU3K-1	5	4.5-5.5	±15	±33	±4	79
CTDD1906SF-1205-DU3K-1	12	10.8-13.2	±5	±100	±10	74
CTDD1906SF-1209-DU3K-1	12	10.8-13.2	±9	±56	±6	76
CTDD1906SF-1212-DU3K-1	12	10.8-13.2	±12	±42	±5	79
CTDD1906SF-1215-DU3K-1	12	10.8-13.2	±15	±33	±4	80
CTDD1906SF-2405-DU3K-1	24	21.6-26.4	±5	±100	±10	74
CTDD1906SF-2409-DU3K-1	24	21.6-26.4	±9	±56	±6	76
CTDD1906SF-2412-DU3K-1	24	21.6-26.4	±12	±42	±5	80
CTDD1906SF-2415-DU3K-1	24	21.6-26.4	±15	±33	±4	81

ISOLATION SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	3000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

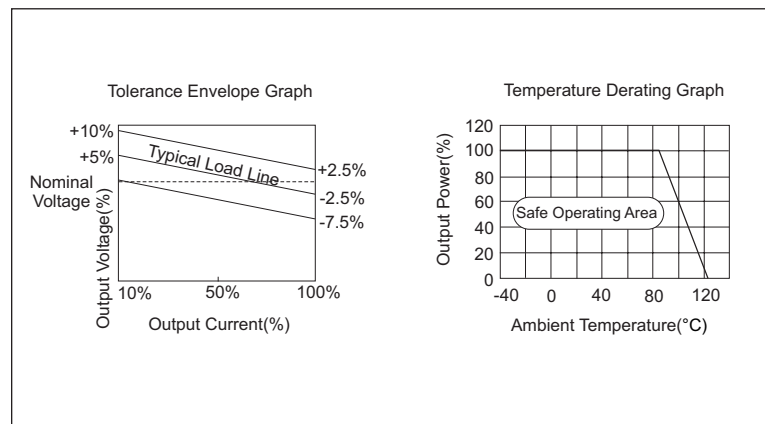
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1%			1.2	%
Load regulation	10% to 100% full load		10	15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz Bandwidth		100	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.

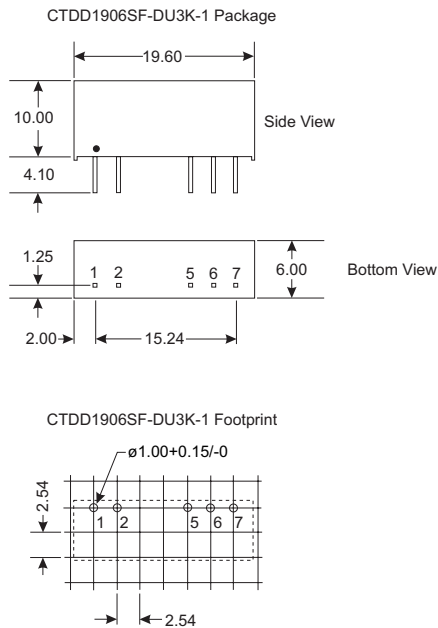
TYPICAL CHARACTERISTICS



CTDD1906SF-DU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output

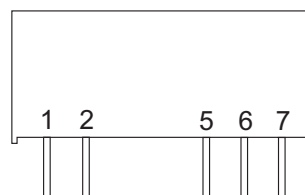
OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



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
5	-V _o
6	0V
7	+V _o



07.13.06