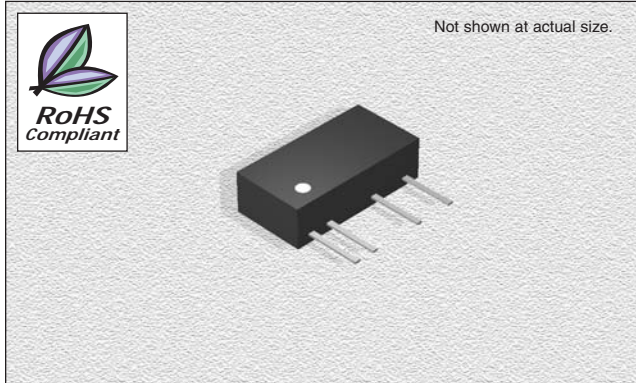


CTDD1906SF-SU Series

Fixed Input Isolated & Unregulated
1W Output, Single Output



FEATURES

- Efficiency:** To 80%
- Temperature Range:** -40°C to 85°C
- Isolation:** 3KVDC
- Package:** UL94-V0
- Miscellaneous:** Single Output Voltage. Fixed Input Voltage. Power Density 0.85W/cm³. Unregulated Output Voltage. No heatsink required. No external component required. Industry standard pinout. Fully encapsulated. 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
- Lead Temperature:** 300°C Max. (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.)
CTDD1906SF-0305SU-1	3.3	3.0-3.6	5	200	20	74%
CTDD1906SF-0503SU-1	5	4.5-5.5	3.3	303	30	73%
CTDD1906SF-0505SU-1	5	4.5-5.5	5	200	20	72%
CTDD1906SF-0509SU-1	5	4.5-5.5	9	111	12	76%
CTDD1906SF-0512SU-1	5	4.5-5.5	12	83	9	79%
CTDD1906SF-0515SU-1	5	4.5-5.5	15	67	7	78%
CTDD1906SF-1205SU-1	12	10.8-13.2	5	200	20	70%
CTDD1906SF-1209SU-1	12	10.8-13.2	9	111	12	75%
CTDD1906SF-1212SU-1	12	10.8-13.2	12	83	9	78%
CTDD1906SF-1215SU-1	12	10.8-13.2	15	67	7	79%
CTDD1906SF-1505SU-1	15	13.5-16.5	5	200	20	69%
CTDD1906SF-2405SU-1	24	21.6-26.4	5	200	20	71%
CTDD1906SF-2409SU-1	24	21.6-26.4	9	111	12	76%
CTDD1906SF-2412SU-1	24	21.6-26.4	12	83	9	78%
CTDD1906SF-2415SU-1	24	21.6-26.4	15	67	7	80%

ISOLATION SPECIFICATIONS

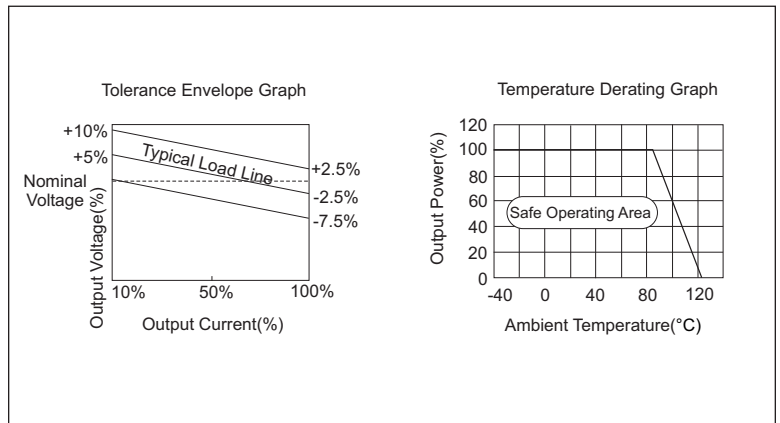
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	3000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1% (3.3V output)			±1.5	%
Line regulation	For Vin change of 1% (other output)			±1.2	%
Load regulation	10% to 100% full load (3.3V output)		12	20	%
Load regulation	10% to 100% full load (5V output)		10	15	%
Load regulation	10% to 100% full load (9V output)		8.3	15	%
Load regulation	10% to 100% full load (12V output)		6.8	15	%
Load regulation	10% to 100% full load (15V output)		6.3	15	%
Output voltage accuracy	See tolerance envelope graph				
Temperature drift	100% full load			0.03	%/°C
Output ripple & noise	20Hz-300KHz bandwidth		75	100	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 load unless otherwise specified.

TYPICAL CHARACTERISTICS

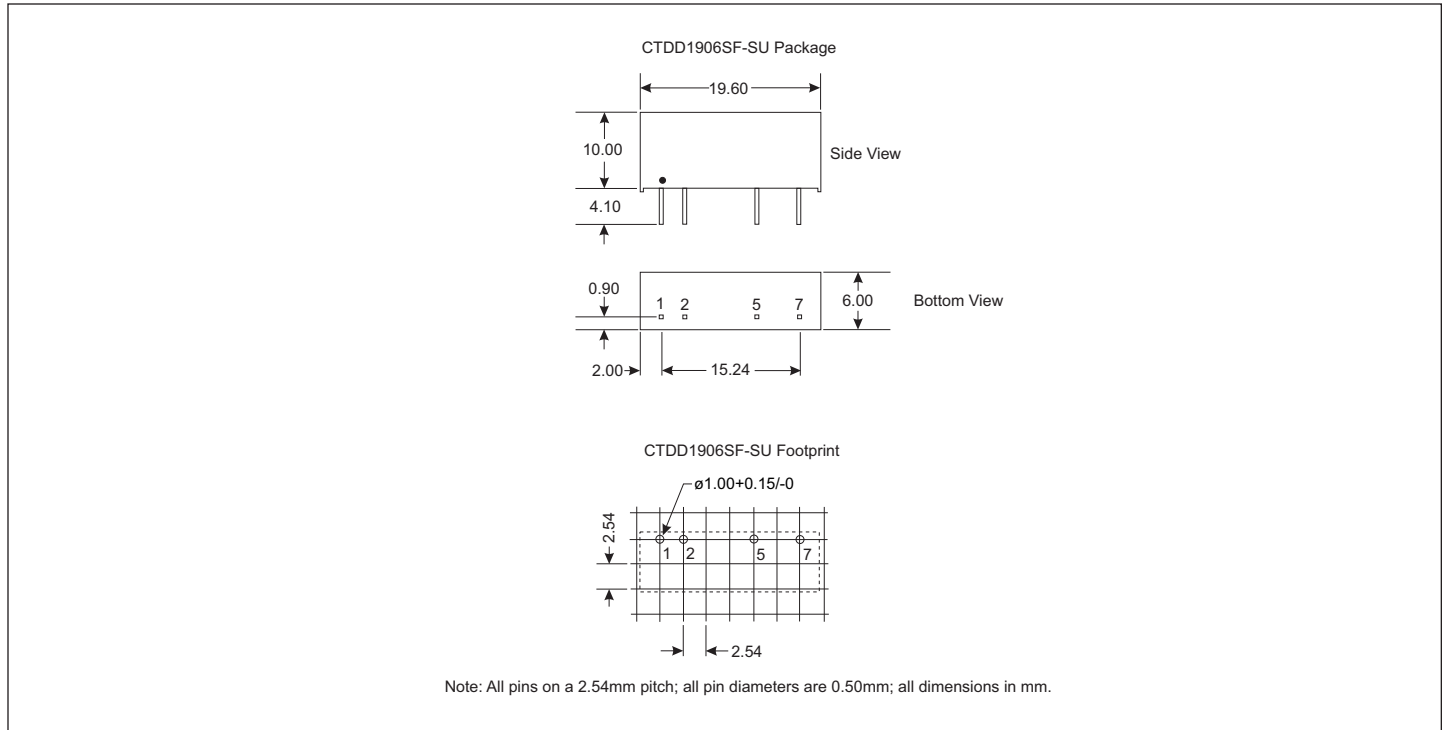


04.02.10

CTDD1906SF-SU Series

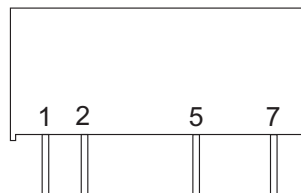
Fixed Input Isolated & Unregulated
1W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

Pin	Function
1	V _{in}
2	GND
5	0V
7	+V _o



04.02.10