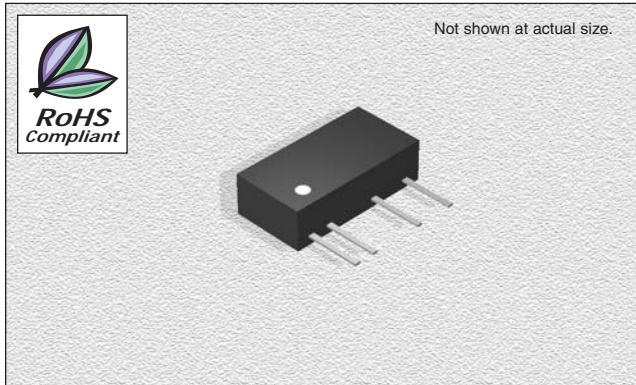


## CTDD1906SF-SU Series

Fixed Input Isolated & Unregulated  
1W Output, Single Output



### FEATURES

- Efficiency:** To 81%
- Temperature Range:** -40°C to 85°C
- Isolation:** 3KVDC
- Package:** UL94-V0
- Miscellaneous:** Single Output Voltage. Fixed Input Voltage. Power Density 0.85W/cm<sup>3</sup>. 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
- 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:** >1,000,000 hours
- Miscellaneous:** RoHS Compliant.

### SPECIFICATIONS

Part Number	Vin Nom.	Input Range	Vout	Iout Max. (mA)	Iout Min. (mA)	Effi(Typ.)
CTDD1906SF-0303SU-1	3.3VDC	3.0-3.6VDC	3.3VDC	300	300	72%
CTDD1966SF-0305SU-1	3.3VDC	3.0-3.6VDC	5VDC	200	20	73%
CTDD1906SF-0503SU-1	5VDC	4.5-5.5VDC	3.3VDC	300	300	74%
CTDD1906SF-0505SU-1	5VDC	4.5-5.5VDC	5VDC	200	20	78%
CTDD1906SF-0509SU-1	5VDC	4.5-5.5VDC	9VDC	111	12	78%
CTDD1906SF-0512SU-1	5VDC	4.5-5.5VDC	12VDC	83	9	80%
CTDD1906SF-0515SU-1	5VDC	4.5-5.5VDC	15VDC	67	7	81%
CTDD1906SF-1203SU-1	12VDC	10.8-13.2VDC	3.3VDC	300	300	75%
CTDD1906SF-1205SU-1	12VDC	10.8-13.2VDC	5VDC	200	20	79%
CTDD1906SF-1209SU-1	12VDC	10.8-13.2VDC	9VDC	111	12	79%
CTDD1906SF-1212SU-1	12VDC	10.8-13.2VDC	12VDC	83	9	81%
CTDD1906SF-1215SU-1	12VDC	10.8-13.2VDC	15VDC	67	7	81%
CTDD1906SF-1505SU-1	15VDC	13.5-16.5VDC	5VDC	200	20	72%
CTDD1906SF-2403SU-1	24VDC	21.6-26.4VDC	3.3VDC	300	300	76%
CTDD1906SF-2405SU-1	24VDC	21.6-26.4VDC	5VDC	200	20	79%
CTDD1906SF-2409SU-1	24VDC	21.6-26.4VDC	9VDC	111	12	80%
CTDD1906SF-2412SU-1	24VDC	21.6-26.4VDC	12VDC	83	9	80%
CTDD1906SF-2415SU-1	24VDC	21.6-26.4VDC	15VDC	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

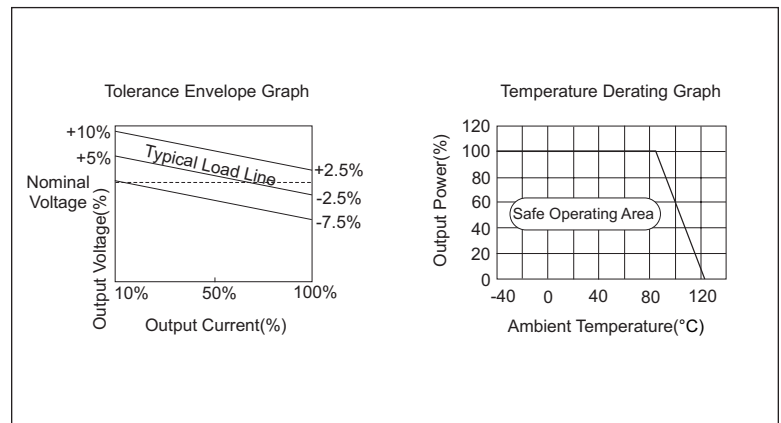
### OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of 1%			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 & noise	20Hz-300KHz bandwidth		50	75	mVp-p
Switching frequency	Full load, nominal input	100	150	200	KHz

Note:

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

### TYPICAL CHARACTERISTICS

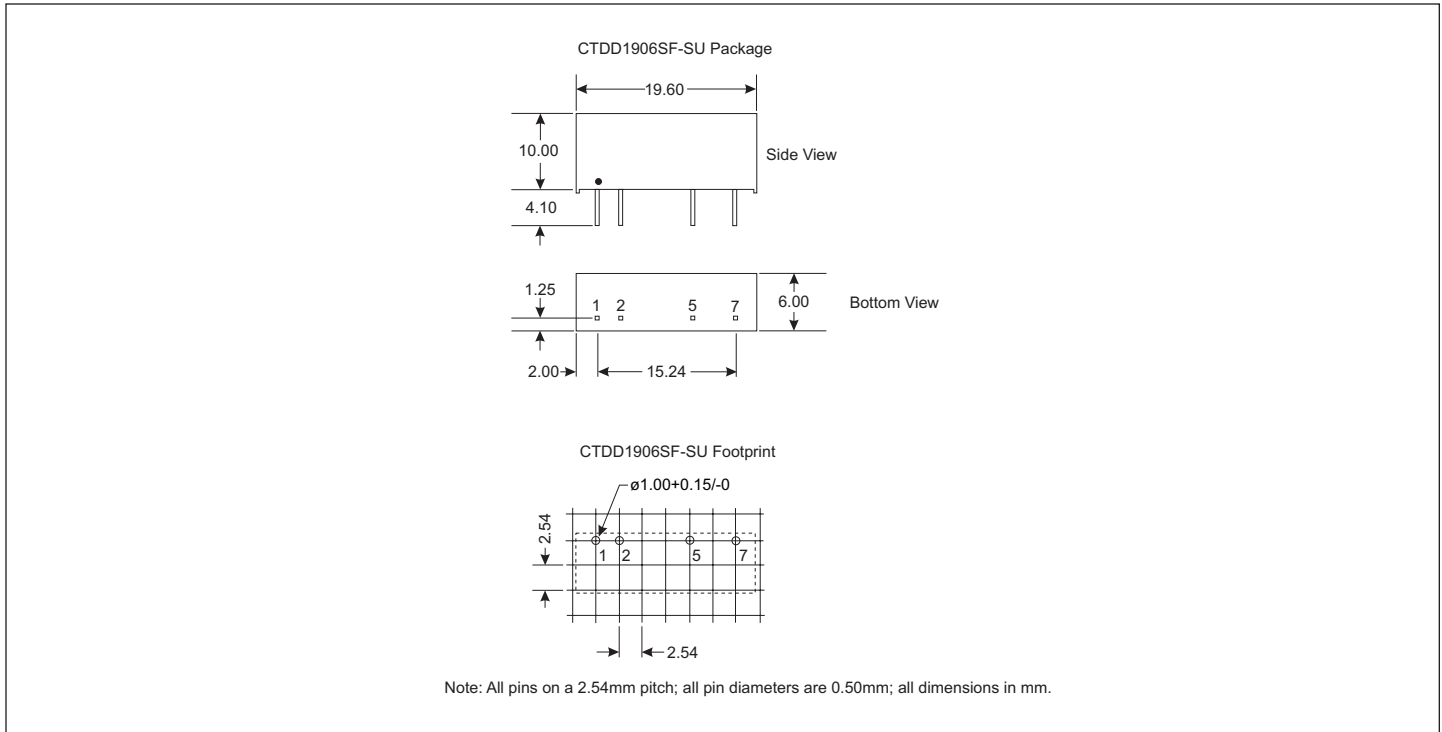


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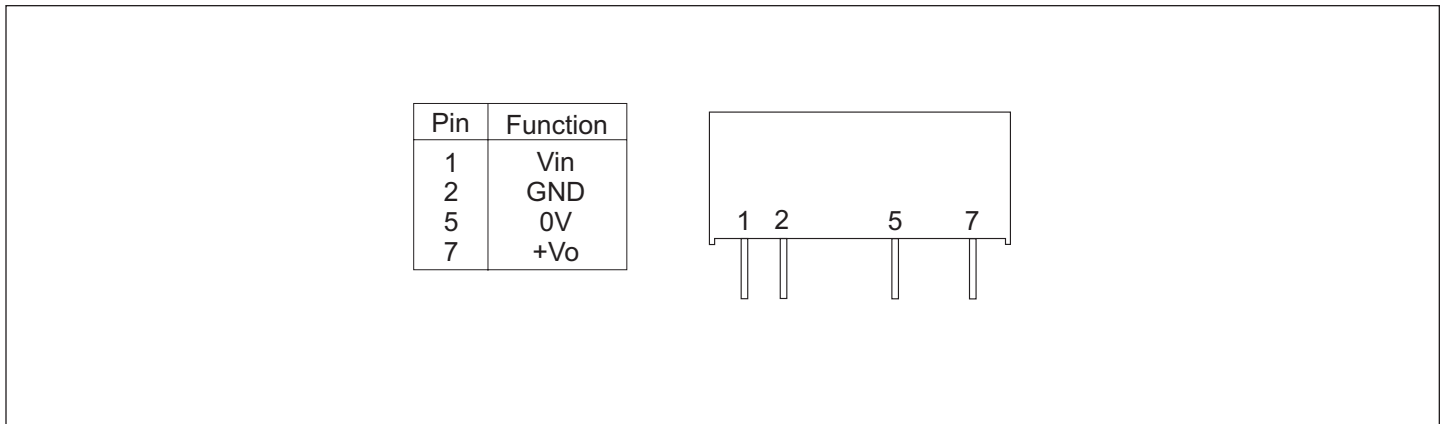
## CTDD1906SF-SU Series

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### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



### PIN CONNECTIONS



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