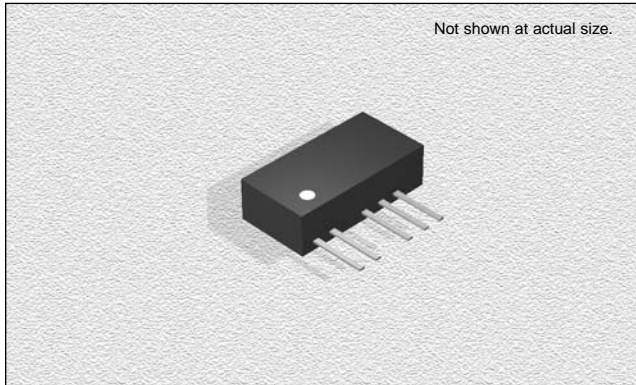


CTDD2007S-D Series

Fixed Input Isolated & Unregulated
2W Output, Dual Output



FEATURES

- Efficiency:** To 82%
- Temperature Range:** -40°C to 85°C
- Isolation:** 1KVDC
- Power Density:** 1.42W/cm³
- Package:** UL94-V0
- Miscellaneous:** No heatsink required. No external component required. Industry standard pinout. Positive & Negative Voltage Output. Full 2W output power. 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:** >1,000,000 hours

SPECIFICATIONS

Part Number	Vin Nom.	Input Range	Vout	Iout Max. (mA)	Iout Min. (mA)	Effi(Typ.)
CTDD2007S-0505D-2	5VDC	4.5-5.5VDC	5VDC	±200	±20	78%
CTDD2007S-0509D-2	5VDC	4.5-5.5VDC	9VDC	±111	±12	79%
CTDD2007S-0512D-2	5VDC	4.5-5.5VDC	12VDC	±83	±9	79%
CTDD2007S-0515D-2	5VDC	4.5-5.5VDC	15VDC	±67	±7	80%
CTDD2007S-1205D-2	12VDC	10.8-13.2VDC	5VDC	±200	±20	79%
CTDD2007S-1209D-2	12VDC	10.8-13.2VDC	9VDC	±111	±12	79%
CTDD2007S-1212D-2	12VDC	10.8-13.2VDC	12VDC	±83	±9	80%
CTDD2007S-1215D-2	12VDC	10.8-13.2VDC	15VDC	±67	±7	82%
CTDD2007S-2405D-2	24VDC	21.6-26.4VDC	5VDC	±200	±20	82%
CTDD2007S-2409D-2	24VDC	21.6-26.4VDC	9VDC	±111	±12	80%
CTDD2007S-2412D-2	24VDC	21.6-26.4VDC	12VDC	±83	±9	81%
CTDD2007S-2415D-2	24VDC	21.6-26.4VDC	15VDC	±67	±7	82%

ISOLATION SPECIFICATIONS

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

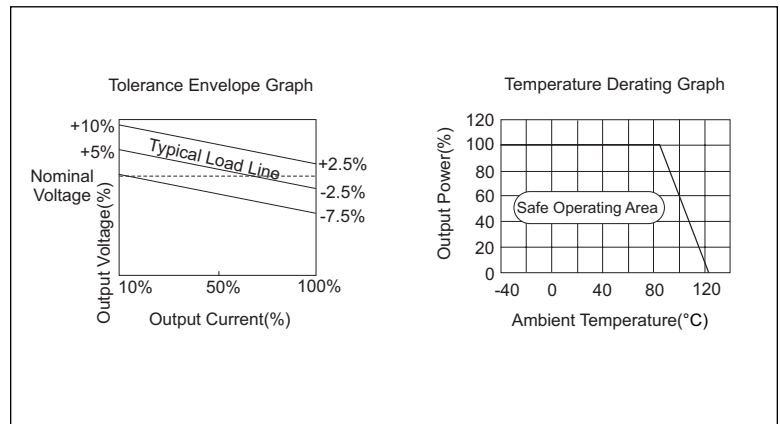
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
2W Output Power		0.2		2	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
2W Output ripple	20MHz Bandwidth		100	150	mVp-p
Switching frequency	Full load, nominal input	60	75	100	KHz

Note:

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

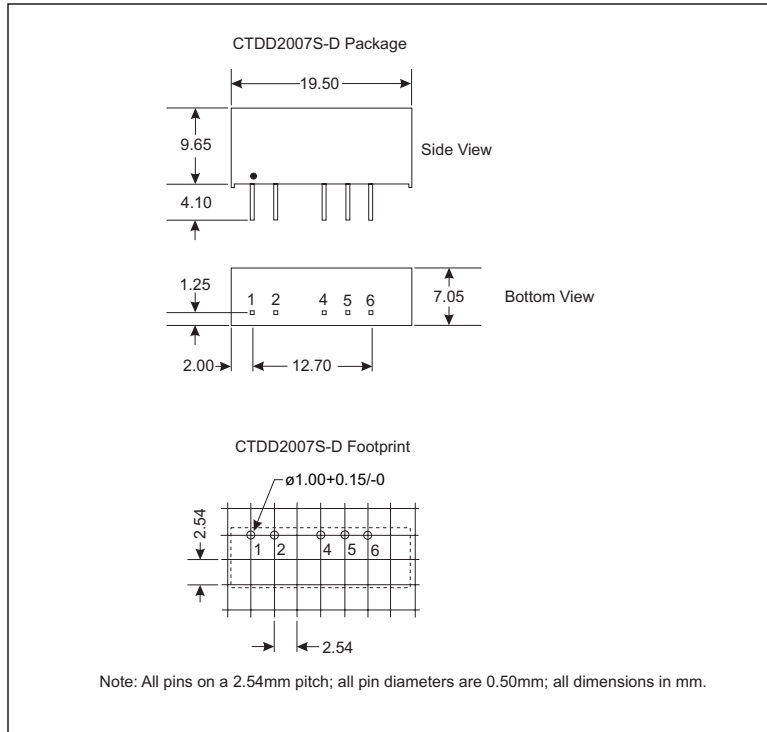
TYPICAL CHARACTERISTICS



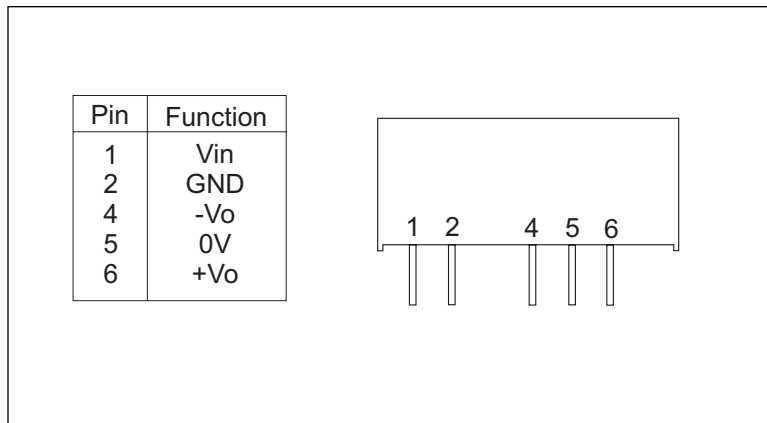
CTDD2007S-D Series

Fixed Input Isolated & Unregulated
2W Output, Dual Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS



12.08.04