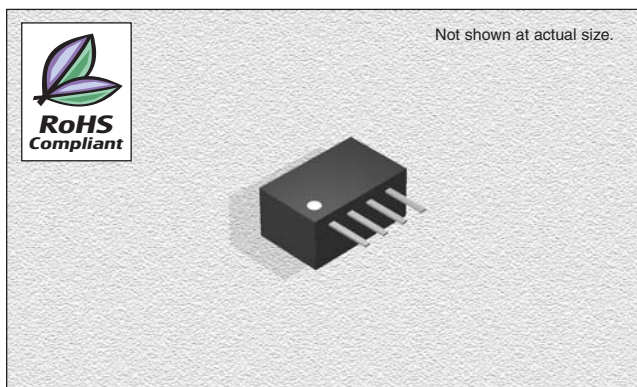


## CTDD1105SF-S Series

Fixed Input Isolated & Unregulated  
1W Output, Single Output



### FEATURES

- Efficiency:** To 80%
- Temperature Range:** -40°C to 85°C
- Isolation:** 1KVDC
- Package:** UL94-V0
- Miscellaneous:** Single Output Voltage. No heatsink required. No external components required. Industry standard pinout. Small footprint. PCB Mounting. Miniature SIP package style.
- 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

### SPECIFICATIONS

Part Number	Vin Nom. (VDC)	Input Range (VDC)	Vout (VDC)	Iout Max. (mA)	Iout Min. (mA)	Effi. Typ. (%)
CTDD1105SF-0303S-1	3.3	3.0-3.6	3.3	303	30	70
CTDD1105SF-0505S-1	5	4.5-5.5	5	200	20	70
CTDD1105SF-0509S-1	5	4.5-5.5	9	111	12	75
CTDD1105SF-0512S-1	5	4.5-5.5	12	83	9	79
CTDD1105SF-0515S-1	5	4.5-5.5	15	67	7	80
CTDD1105SF-1205S-1	12	10.8-13.2	5	200	20	72
CTDD1105SF-1209S-1	12	10.8-13.2	9	111	12	75
CTDD1105SF-1212S-1	12	10.8-13.2	12	83	9	78
CTDD1105SF-1215S-1	12	10.8-13.2	15	67	7	80

### ISOLATION SPECIFICATIONS

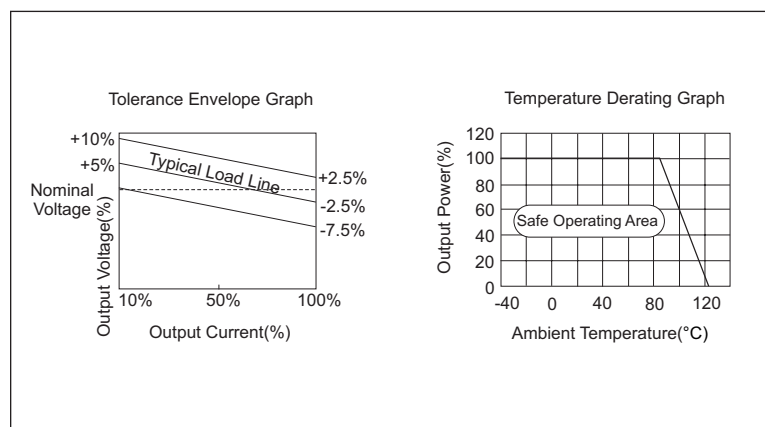
Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Tested for 1 minute	1000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

### OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
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		50	75	mVp-p
Noise	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

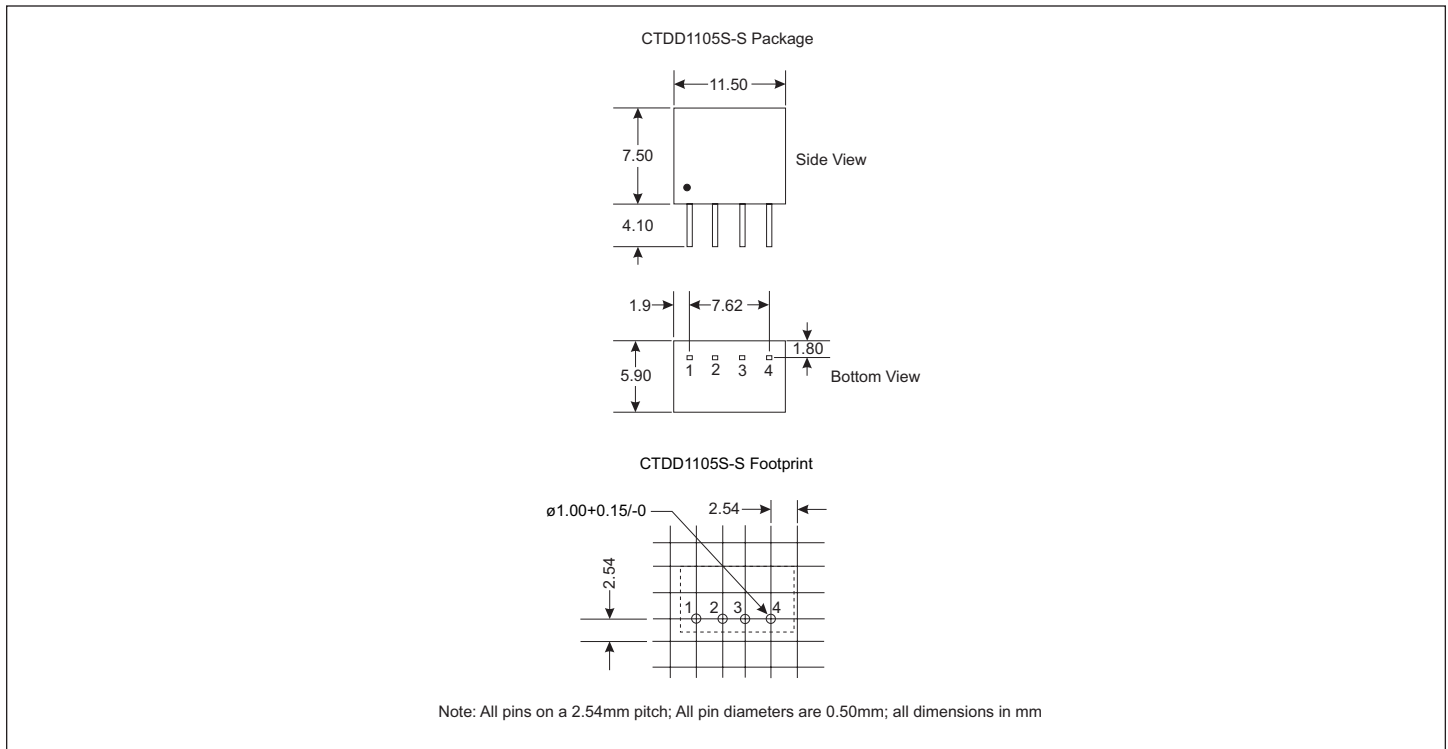


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## CTDD1105SF-S Series

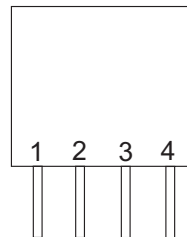
Fixed Input Isolated & Unregulated  
1W Output, Single Output

### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



### PIN CONNECTIONS

Pin	Function
1	GND
2	V <sub>in</sub>
3	0V
4	+V <sub>o</sub>



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