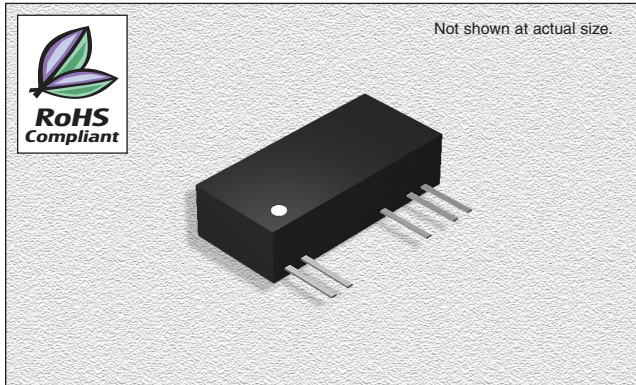


## CTDD2709SF-D3K-1 Series

Fixed Input Isolated & Regulated  
1W Output, Dual Output



### FEATURES

- Efficiency:** To 73%
- Temperature Range:** -40°C to 85°C
- Isolation:** 3KVDC
- Package:** UL94-V0
- Miscellaneous:** Dual Output. No heat sink required. No external component required. Industry standard pinout. Power density 0.85W/cm<sup>3</sup>. Small Footprint. SIP package styles.
- Additional Information:** Additional electrical & physical information available upon request
- Samples available. See website for ordering information.**

### 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:** >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. (%)
CTDD2709SF-0505-D3K-1	5	4.75-5.25	±5	±100	±10	69
CTDD2709SF-0509-D3K-1	5	4.75-5.25	±9	±56	±6	70
CTDD2709SF-0512-D3K-1	5	4.75-5.25	±12	±42	±5	72
CTDD2709SF-0515-D3K-1	5	4.75-5.25	±15	±33	±4	72
CTDD2709SF-1205-D3K-1	12	11.4-12.6	±5	±100	±10	70
CTDD2709SF-1209-D3K-1	12	11.4-12.6	±9	±56	±6	72
CTDD2709SF-1212-D3K-1	12	11.4-12.6	±12	±42	±5	73
CTDD2709SF-1215-D3K-1	12	11.4-12.6	±15	±33	±4	73
CTDD2709SF-2405-D3K-1	24	22.8-25.2	±5	±100	±10	72
CTDD2709SF-2409-D3K-1	24	22.8-25.2	±9	±56	±6	72
CTDD2709SF-2412-D3K-1	24	22.8-25.2	±12	±42	±5	73
CTDD2709SF-2415-D3K-1	24	22.8-25.2	±15	±33	±4	73

### ISOLATION SPECIFICATIONS

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

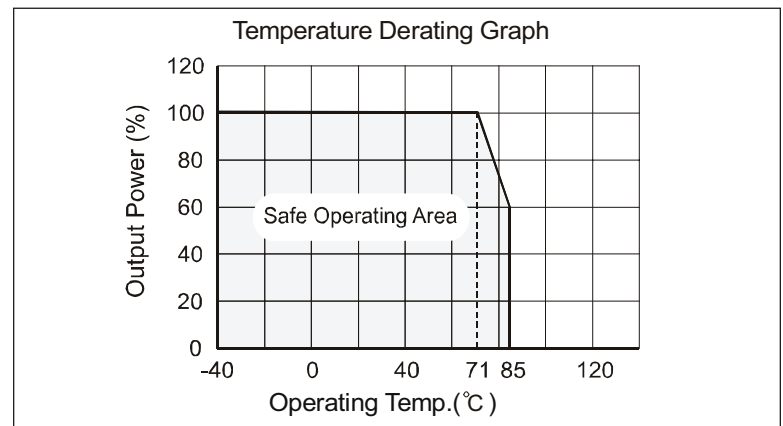
### OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Output Power		0.1		1	W
Line regulation	For Vin change of ±5%			0.25	%
Load regulation	10% to 100% full load			1	%
Output voltage accuracy	100% full load			±3	%
Temperature drift	100% full load			0.03	%/°C
Output ripple	20MHz bandwidth		10	15	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

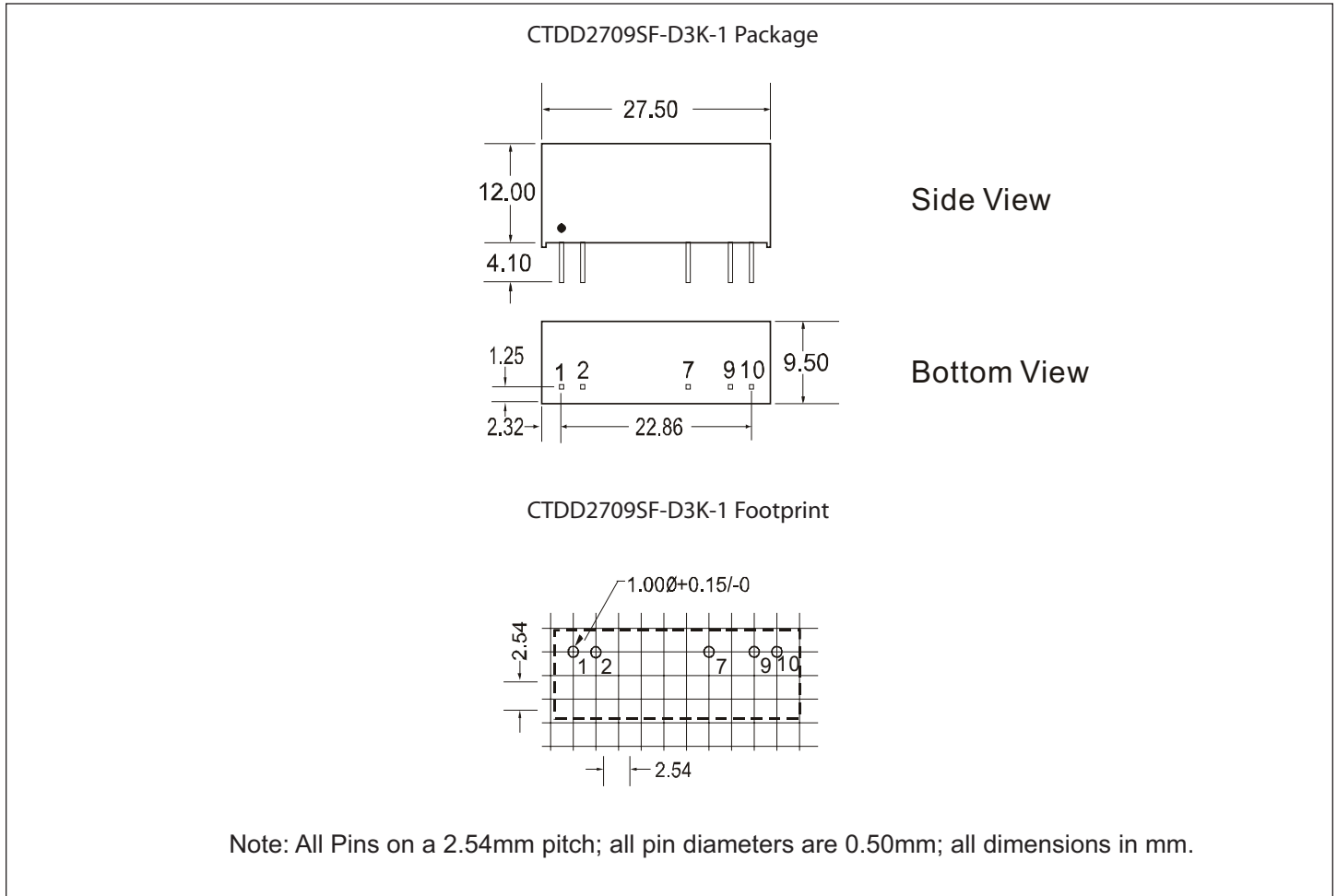


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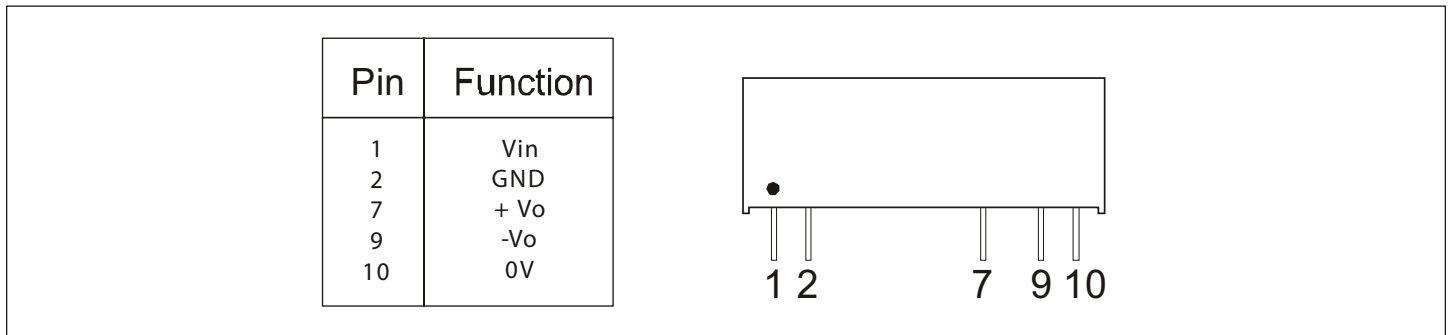
## CTDD2709SF-D3K-1 Series

Fixed Input Isolated & Regulated  
1W Output, Dual Output

### OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



### PIN CONNECTIONS



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