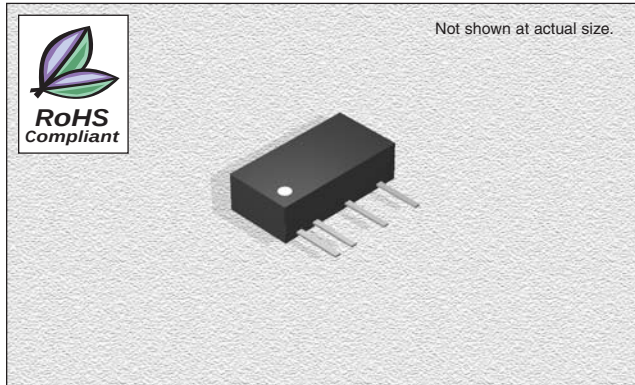


CTDD1605SF-SU1K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Single Output



FEATURES

Efficiency: To 81%

Temperature Range: -40°C to 85°C

Isolation: 1KVDC

Package: UL94-V0

Miscellaneous: Single Output Voltage. No heatsink required. No external component required. Industry standard pinout. 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 (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. (%)
CTDD1605SF-0303-SU1K-1	3.3	3.0-3.6	3.3	300	30	72
CTDD1605SF-0305-SU1K-1	3.3	3.0-3.6	5	200	20	73
CTDD1605SF-0503-SU1K-1	5	4.5-5.5	3.3	300	30	74
CTDD1605SF-0505-SU1K-1	5	4.5-5.5	5	200	20	72
CTDD1605SF-0509-SU1K-1	5	4.5-5.5	9	111	12	74
CTDD1605SF-0512-SU1K-1	5	4.5-5.5	12	83	9	77
CTDD1605SF-0515-SU1K-1	5	4.5-5.5	15	67	7	79
CTDD1605SF-1203-SU1K-1	12	10.8-13.2	3.3	300	30	75
CTDD1605SF-1205-SU1K-1	12	10.8-13.2	5	200	20	76
CTDD1605SF-1209-SU1K-1	12	10.8-13.2	9	111	12	75
CTDD1605SF-1212-SU1K-1	12	10.8-13.2	12	83	9	79
CTDD1605SF-1215-SU1K-1	12	10.8-13.2	15	67	7	80
CTDD1605SF-2403-SU1K-1	24	21.6-26.4	3.3	300	30	76
CTDD1605SF-2405-SU1K-1	24	21.6-26.4	5	200	20	74
CTDD1605SF-2409-SU1K-1	24	21.6-26.4	9	111	12	76
CTDD1605SF-2412-SU1K-1	24	21.6-26.4	12	83	9	80
CTDD1605SF-2415-SU1K-1	24	21.6-26.4	15	67	7	81

ISOLATION SPECIFICATIONS

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

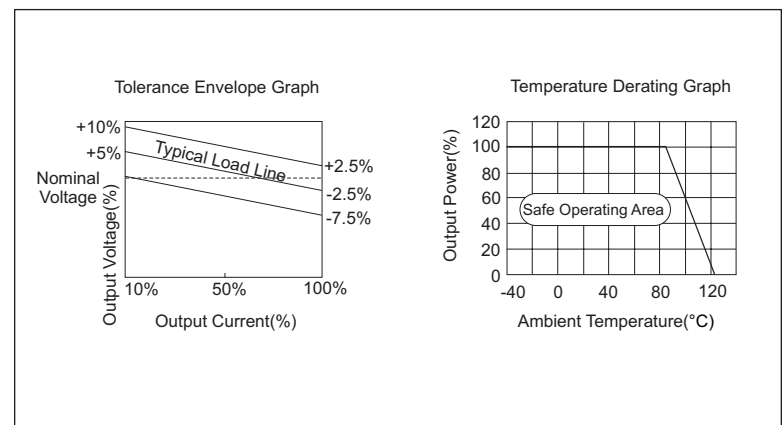
OUTPUT SPECIFICATIONS

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
Switching frequency	Full load, nominal input voltage		100		KHz

Note:

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

TYPICAL CHARACTERISTICS

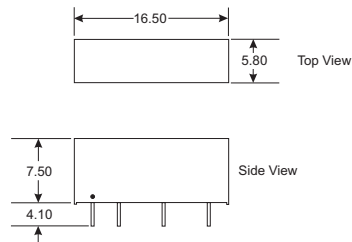


CTDD1605SF-SU1K-1 Series

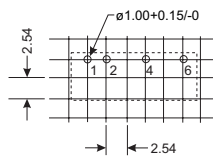
Fixed Input Isolated & Unregulated
1W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

CTDD1605SF-SU1K-1 Package



CTDD1605SF-SU1K-1 Footprint



Note: All pins on a 2.54mm pitch; all pin diameters are 0.50mm; all dimensions in mm.

PIN CONNECTIONS

Pin	Function
1	V _{in}
2	GND
4	0V
6	+V _o

