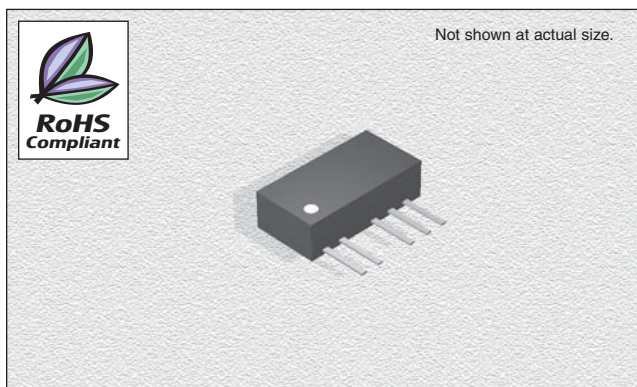


CTDD1605SF-DU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output



FEATURES

Efficiency: To 81%

Temperature Range: -40°C to +85°C

Isolation: 3KVDC

Power Density: 0.85W/cm³

Package: UL94-V0

Miscellaneous: No heat sink required. No external components required. Industry standard pinout. Dual Output Voltage. Fully Encapsulated. PCB Mounting. Fixed Input Voltage. 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: >3,500,000 hours

SPECIFICATIONS

Part Number	Vin Nom. (VDC)	Input Range (VDC)	Vout (VDC)	Iout Max. (mA)	Iout Min. (mA)	Effi. Typ. (%)
CTDD1605SF-0505-DU3K-1	5	4.5-5.5	±5	±100	±10	78
CTDD1605SF-0509-DU3K-1	5	4.5-5.5	±9	±56	±6	78
CTDD1605SF-0512-DU3K-1	5	4.5-5.5	±12	±42	±5	80
CTDD1605SF-0515-DU3K-1	5	4.5-5.5	±15	±33	±4	81
CTDD1605SF-1205-DU3K-1	12	10.8-13.2	±5	±100	±10	79
CTDD1605SF-1209-DU3K-1	12	10.8-13.2	±9	±56	±6	79
CTDD1605SF-1212-DU3K-1	12	10.8-13.2	±12	±42	±5	81
CTDD1605SF-1215-DU3K-1	12	10.8-13.2	±15	±33	±4	81
CTDD1605SF-2405-DU3K-1	24	21.6-26.4	±5	±100	±10	79
CTDD1605SF-2409-DU3K-1	24	21.6-26.4	±9	±56	±6	80
CTDD1605SF-2412-DU3K-1	24	21.6-26.4	±12	±42	±5	80
CTDD1605SF-2415-DU3K-1	24	21.6-26.4	±15	±33	±4	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

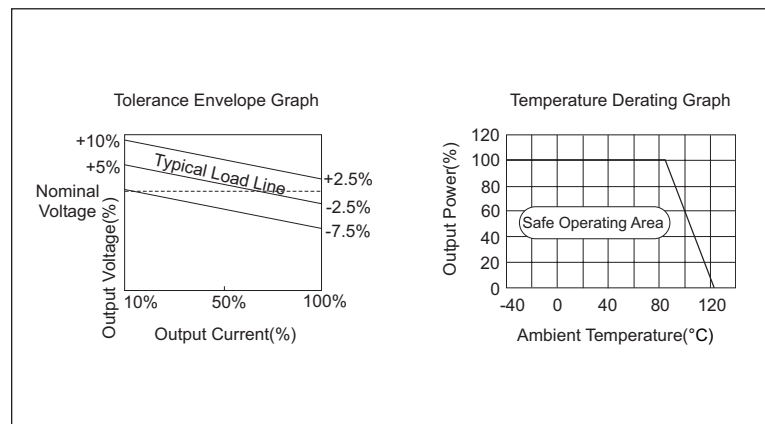
OUTPUT SPECIFICATIONS

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	20Hz-300KHz Bandwidth		50	75	mVp-p
Switching frequency	Full load, nominal input	100	150	200	KHz

Note:

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

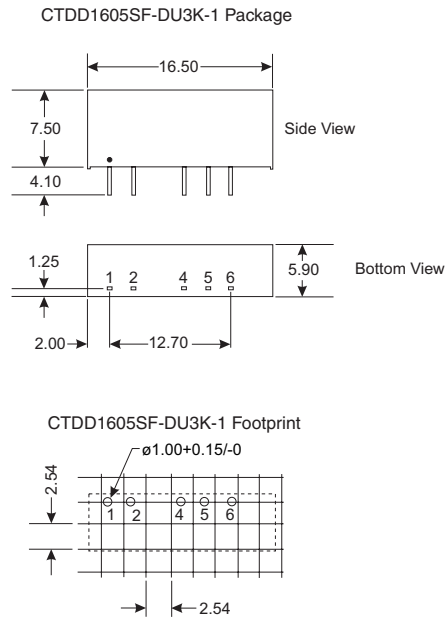
TYPICAL CHARACTERISTICS



CTDD1605SF-DU3K-1 Series

Fixed Input Isolated & Unregulated
1W Output, Dual Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



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	-V _o
5	0V
6	+V _o

