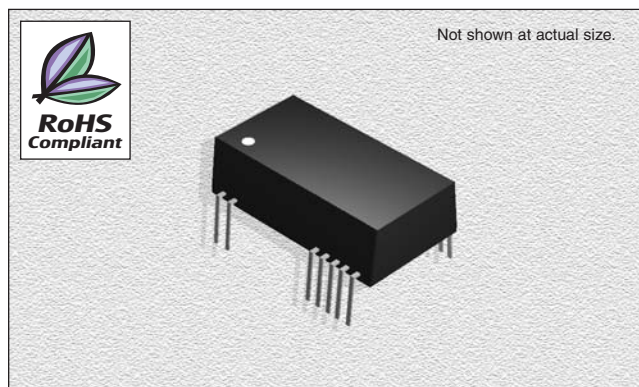


CTDD3214DF-S6K-2 Series

Fixed Input Isolated & Unregulated
2W Output, Single Output



FEATURES

Efficiency: To 85%

Temperature Range: -40°C to 85°C

Isolation: 6KVDC

Package: UL94-V0

Miscellaneous: Positive Voltage Output. Small Footprint. No heat sink required. Fixed Input Voltage. No external component required. Industry standard pinout. Unregulated output voltage. 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. (%)
CTDD3214DF-0505-S6K-2	5	4.5-5.5	5	400	40	78
CTDD3214DF-0509-S6K-2	5	4.5-5.5	9	222	23	79
CTDD3214DF-0512-S6K-2	5	4.5-5.5	12	167	17	80
CTDD3214DF-0515-S6K-2	5	4.5-5.5	15	133	14	80
CTDD3214DF-1205-S6K-2	12	10.8-13.2	5	400	40	79
CTDD3214DF-1209-S6K-2	12	10.8-13.2	9	222	23	80
CTDD3214DF-1212-S6K-2	12	10.8-13.2	12	167	17	82
CTDD3214DF-1215-S6K-2	12	10.8-13.2	15	133	14	82

ISOLATION SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
Isolation Voltage	Flash tested for 1 minute	6000			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ

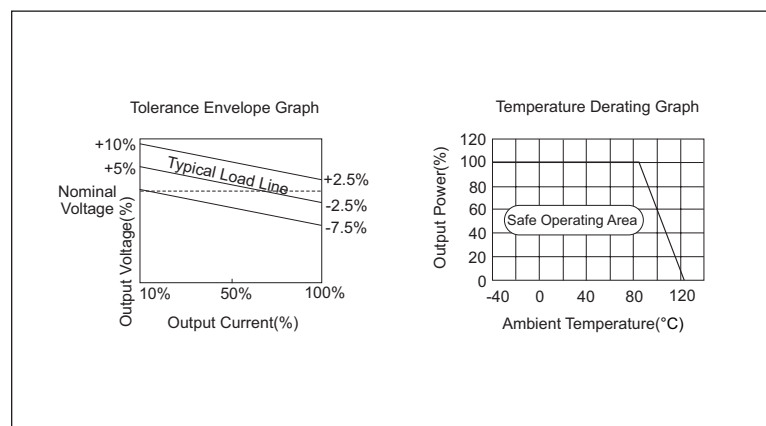
OUTPUT SPECIFICATIONS

Item	Test Condition	MIN	TYP	MAX	Units
2W Output Power		0.2		2	W
Line regulation	Nominal voltage ±1%			±1.2	%
Load regulation	10% to 100% (5V output)			15	%
Load regulation	10% to 100% (12V output)			10	%
Output voltage accuracy	100% full load			See tolerance envelope graph	
Efficiency at full load	Nominal input voltage		80		%
Temperature drift	100% full load			0.03	%/°C
2W Output ripple	20MHz Bandwidth		100	200	mVp-p
Switching frequency	Full load, nominal input		35		KHz

Note:

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

TYPICAL CHARACTERISTICS

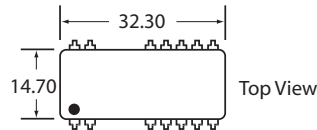
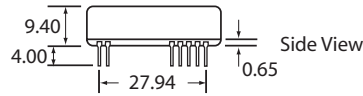


CTDD3214DF-S6K-2 Series

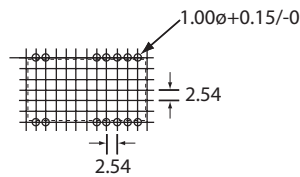
Fixed Input Isolated & Unregulated
2W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

CTDD3214DF-S6K-2 Package



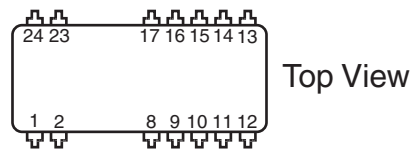
CTDD3214DF-S6K-2 Footprint



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

PIN CONNECTIONS

Pin	Function
1	Vin
2	GND
8,17	NC
10,15	0V
12,13	+Vo



11.27.06