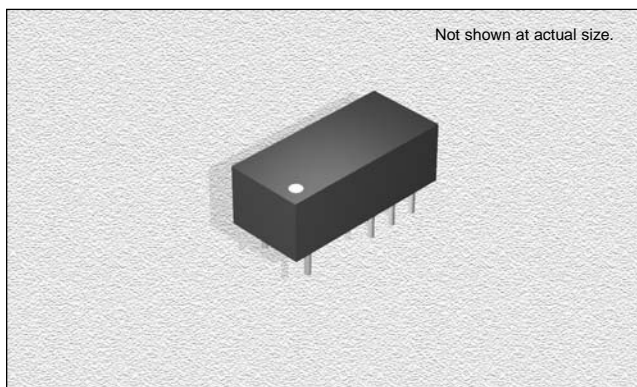


CTDD2210D-S Series

Fixed Input Isolated & Unregulated
1W Output, Single Output



FEATURES

Efficiency: 70%-80%
Isolation Voltage³: 1000 VDC min
Isolation Resistance: 10⁹ ohms min
Isolation Capacitance: 80pF max.
Switching Frequency: 50kHz min
MTBF⁵: >2,000,000 hours
Weight: 3.1g Typ.
Case Material: Non-Conductive Plastic
Case Size: 22.6mm x 9.9mm x 8.4mm
Conducted Emissions: EN55022 Class A
Radiated Emissions: EN55022 Class A

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -25°C to +71°C
Storage Temperature: -55°C to +125°C
Humidity: 95% max
Cooling: Free-Air Convection

¹ High Line to Low Line.

² Load Regulation is for output load current change from 20% to 100%

³ For 10 seconds

⁴ 25% Step Load Change

⁵ MIL-HDBK-217 @25°C, Ground Benign

SPECIFICATIONS

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Curr. ⁸ Full Load (mA)	Input Curr. ⁸ No Load (mA)	Eff ⁹ (%)
CTDD2210D-0503S-1	5	3.3	300	274	21	73
CTDD2210D-0505S-1	5	5	200	274	21	73
CTDD2210D-0509S-1	5	9	111	268	20	75
CTDD2210D-0512S-1	5	12	84	255	20	78
CTDD2210D-0515S-1	5	15	67	253	20	79
CTDD2210D-0524S-1	5	24	42	253	20	79
CTDD2210D-1203S-1	12	3.3	300	112	11	74
CTDD2210D-1205S-1	12	5	200	112	11	74
CTDD2210D-1209S-1	12	9	111	105	10	79
CTDD2210D-1212S-1	12	12	84	102	10	82
CTDD2210D-1215S-1	12	15	67	102	10	82
CTDD2210D-1224S-1	12	24	42	102	10	82
CTDD2210D-2403S-1	24	3.3	300	58	10	72
CTDD2210D-2405S-1	24	5	200	58	10	72
CTDD2210D-2409S-1	24	9	111	52	6	80
CTDD2210D-2412S-1	24	12	84	50	5	83
CTDD2210D-2415S-1	24	15	67	50	5	83
CTDD2210D-2424S-1	24	24	42	50	5	83
CTDD2210D-4803S-1	48	3.3	300	28	3	74
CTDD2210D-4805S-1	48	5	200	28	3	74
CTDD2210D-4809S-1	48	9	111	27	3	77
CTDD2210D-4812S-1	48	12	84	25	3	83
CTDD2210D-4815S-1	48	15	67	25	2	83
CTDD2210D-4824S-1	48	24	42	25	2	83

⁸ Nominal Input Voltage

⁹ Nominal Input Voltage, Full Load

INPUT SPECIFICATIONS

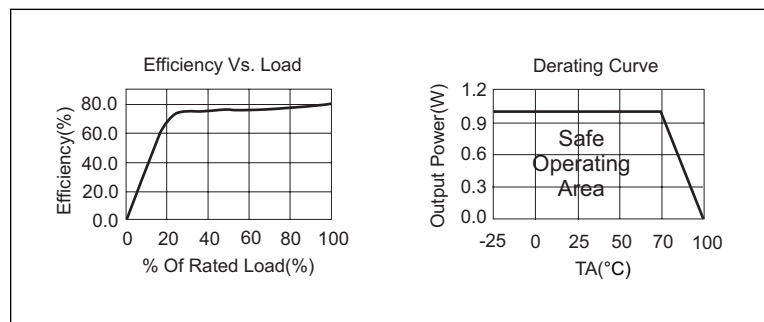
Input Voltage Range: ±10% max
Input Filter: Capacitor Typ
Protection: Fuse Recommended

OUTPUT SPECIFICATIONS

Output Power: 1W
Voltage Setpoint Accuracy: ±2% max
Temperature Coefficient: ±0.03%/°C
Ripple & Noise(20MHz BW): 100mVp-p max
Line Regulation¹: ±1.2% max
Load Regulation²: ±8% max
Minimum Load: 10% of Full Load
Short Circuit Protection: Momentary
Transient Response⁴: 200uS max

All specifications typical at nominal line, full load, and 25°C unless otherwise noted.

TYPICAL CHARACTERISTICS

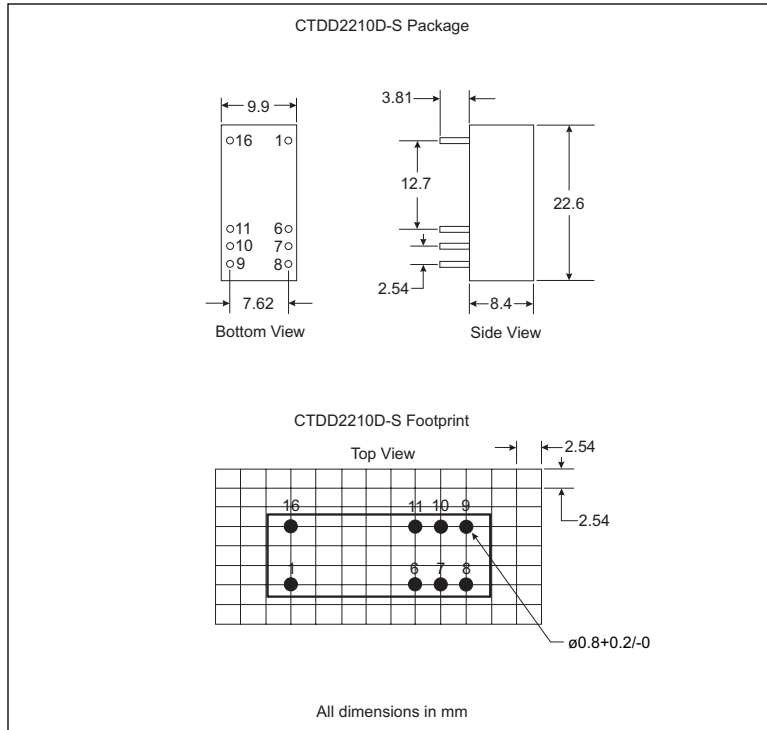


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CTDD2210D-S Series

Fixed Input Isolated & Unregulated
1W Output, Single Output

OUTLINE DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS



PIN CONNECTIONS

Pin	Function
1&16	+Vin
6&11	-Vout
7&10	+Vout
8&9	-Vin

Pin connection diagram showing the layout of pins 1, 6, 7, 8, 9, 10, 11, and 16. The pins are arranged in two rows: the top row contains pins 16 and 1, and the bottom row contains pins 11, 6, 10, 7, 9, and 8.

02.16.05