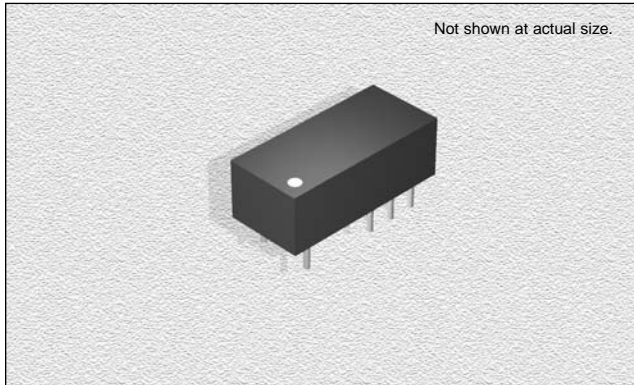


CTDD2210D-S Series

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

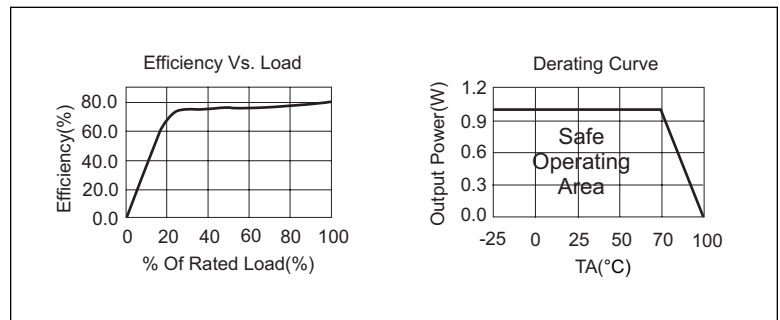
- Input Voltage Range:** ±10% max
- Input Filter:** Capacitor Typ
- Protection:** Fuse Recommended

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

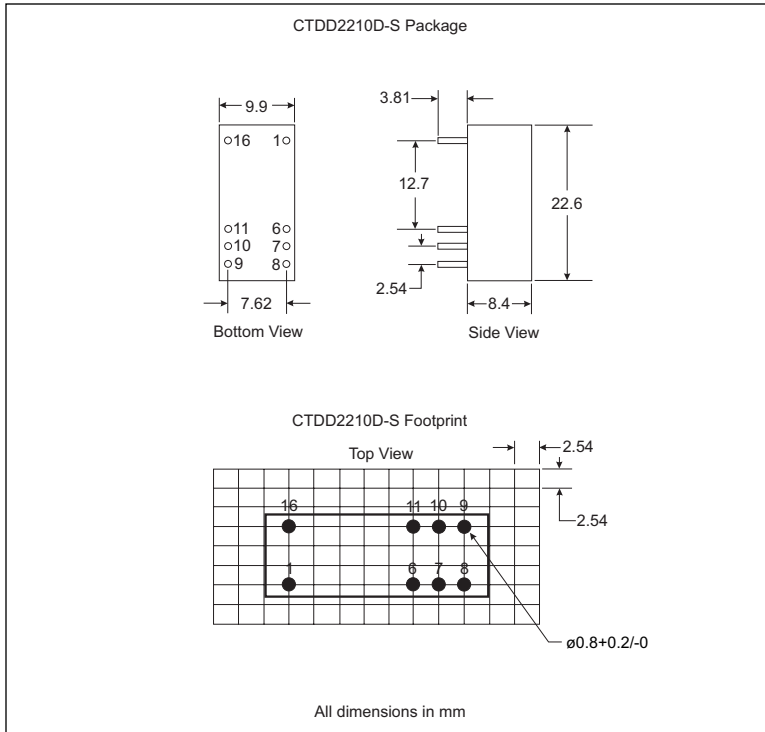


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CTDD2210D-S Series

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.

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