

DC/DC Converters, High Power Density

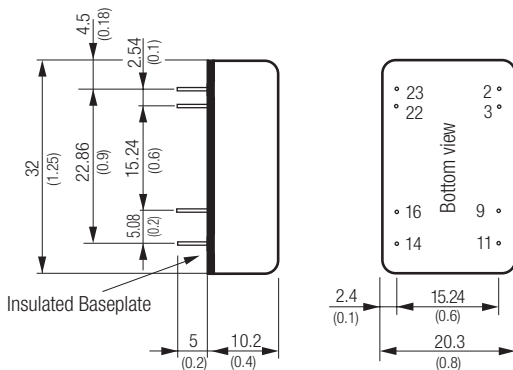
THD 10 Series, 10 Watt

- DIL-24 Package
- Wide 2:1 Input Range
- Very High Efficiency up to 87%
- Operating Temperature Range -40°C to $+85^{\circ}\text{C}$
- I/O Isolation 1500 VDC
- Short Circuit Protection
- Input Filter to meet EN 55022, Class A
- Industry Standard Pin-out



Models			
Order code	Input voltage	Output voltage	Output current max.
THD 10-1209	9 – 18 VDC	2.5 VDC	3000 mA
THD 10-1210		3.3 VDC	3000 mA
THD 10-1211		5 VDC	2000 mA
THD 10-1212		12 VDC	830 mA
THD 10-1222		± 12 VDC	± 415 mA
THD 10-1223		± 15 VDC	± 330 mA
THD 10-2409	18 – 36 VDC	2.5 VDC	3000 mA
THD 10-2410		3.3 VDC	3000 mA
THD 10-2411		5 VDC	2000 mA
THD 10-2412		12 VDC	830 mA
THD 10-2422		± 12 VDC	± 415 mA
THD 10-2423		± 15 VDC	± 330 mA
THD 10-4809	36 – 75 VDC	2.5 VDC	3000 mA
THD 10-4810		3.3 VDC	3000 mA
THD 10-4811		5 VDC	2000 mA
THD 10-4812		12 VDC	830 mA
THD 10-4822		± 12 VDC	± 415 mA
THD 10-4823		± 15 VDC	± 330 mA

- Line regulation:** $\pm 1.0\%$ max.
- Load regulation:**
 - Single output models: $\pm 1.2\%$ max.
 - Dual output models: $\pm 1.2\%$ max.
- Ripple & Noise:** < 50 mV pk-pk (20 MHz BW)
- Conducted EMI:** EN 55022, class A and FCC, level A (internal filter)
- Short circuit protection:** continuous, automatic recovery
- Efficiency:** 85% typical
- Operating temperature range:** -40°C to $+85^{\circ}\text{C}$
above 70°C derating 3%/ $^{\circ}\text{C}$
- I/O isolation voltage:** 1500 VDC
- Safety standards / approvals:** cUL/UL 60950, IEC/EN 60950
- Case:** metal, 6-sided shielded, with insulated baseplate



Pin-Out		
Pin	Single output	Dual output
2	– Vin (GND)	– Vin (GND)
3	– Vin (GND)	– Vin (GND)
9	No pin	Common
11	No con.	– Vout
14	+ Vout	+ Vout
16	– Vout	Common
22	+ Vin (Vcc)	+ Vin (Vcc)
23	+ Vin (Vcc)	+ Vin (Vcc)

() = Inches



T H E X P E R T S I N P O W E R