

DC-DC Converters

**POWER
SOLVE**

THD15N Series, 15 Watt

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Features

- High power density in a DIP-24 metal package
- Wide 2:1 input range
- High efficiency up to 90%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +85°C
- Input filter to meet EN55022 class A
- Industry standard pin out
- Short circuit protection, Under voltage lockout & Remote ON/OFF



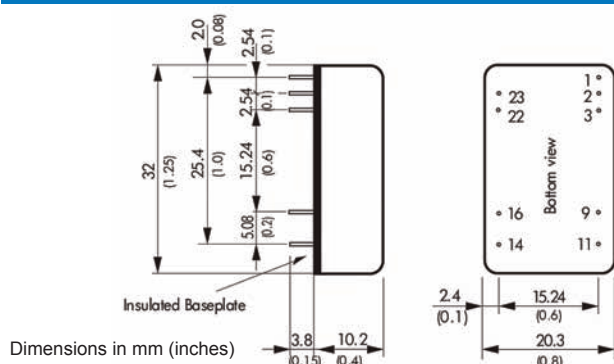
Electrical Specification

Conducted EMI	EN55022 class A & FCC level A (internal filter)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +85°C (derate at 4.0%/°C above 70°C)
I/O Isolation test voltage	1500VDC
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	metal, 6-side shielded with insulated baseplate
Remote ON/OFF	Shutdown input for low current (2.5mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
THD15-1210N	9 - 18V	3.3VDC	4000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-1211N		5.1VDC	3000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-1212N		12VDC	1250mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-1213N		15VDC	1000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-1221N		±5VDC	±1500mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-1222N		±12VDC	±625mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-1223N	18 - 36V	±15VDC	±500mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-2410N		3.3VDC	4000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-2411N		5.1VDC	3000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-2412N		12VDC	1250mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-2413N		15VDC	1000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-2421N		±5VDC	±1500mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-2422N	36 - 75V	±12VDC	±625mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-2423N		±15VDC	±500mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-4810N		3.3VDC	4000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-4811N		5.1VDC	3000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-4812N		12VDC	1250mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-4813N		15VDC	1000mA	60mV pk-pk max.	0.2%	0.5%	88%
THD15-4821N		±5VDC	±1500mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-4822N		±12VDC	±625mA	60mV pk-pk max.	0.2%	1.0%	88%
THD15-4823N		±15VDC	±500mA	60mV pk-pk max.	0.2%	1.0%	88%

Mechanical and Connection Details



Pin	Single Output	Dual Output
1	Remote ON/OFF	Remote ON/OFF
2	-Vin (GND)	-Vin (GND)
3	-Vin (GND)	-Vin (GND)
9	No Conn.	Common
11	No Conn.	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin (Vcc)	+Vin (Vcc)
23	+Vin (Vcc)	+Vin (Vcc)