

DC-DC Converters

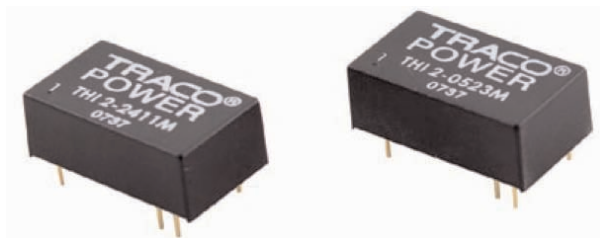
**POWER
SOLVE**

THI 2M Series, 2 Watt

www.powersolve.co.uk

Features

- Ultra compact DIP 16 package
- I/O isolation 4000Vac rms
- Industrial and medical safety approval
- Operating temperature range -40°C to +71°C
- Short circuit protection
- Reinforced insulation rated for working voltage up to 300VAC



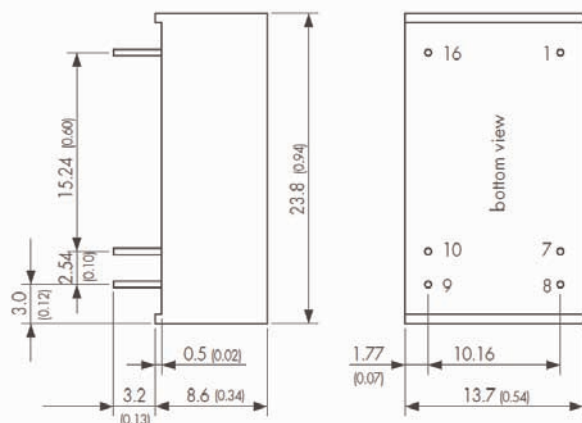
Electrical Specification

Input filter	Pi-filter
Short Circuit Protection	limited 0.5 sec.
Efficiency	See Table
Operating Temperature Range	-40°C to +71°C (derate at 2.5%/°C above 60°C)
I/O isolation voltage	4000Vac rms, rated for 300Vac working voltage
I/O Isolation test voltage	6000Vpk (1 sec.)
I/O Isolation capacitance	20pF typical
I/O Isolation resistance	>10,000M ohm
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1, cUL/UL 60601-1, IEC/EN 60601-1, CB report
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFFICIENCY
THI2-0511M	5VDC \pm 10%	5VDC	400mA	150mV pk-pk max.	non-regulated	12%	66%
THI2-0512M		12VDC	165mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-0513M		15VDC	133mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-0522M		\pm 12VDC	\pm 83mA	150mV pk-pk max.	non-regulated	10%	72%
THI2-0523M	12VDC \pm 10%	\pm 15VDC	\pm 66mA	150mV pk-pk max.	non-regulated	10%	73%
THI2-1211M		5VDC	400mA	150mV pk-pk max.	non-regulated	12%	66%
THI2-1212M		12VDC	165mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-1213M		15VDC	133mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-1222M	24VDC \pm 10%	\pm 12VDC	\pm 83mA	150mV pk-pk max.	non-regulated	10%	74%
THI2-1223M		\pm 15VDC	\pm 66mA	150mV pk-pk max.	non-regulated	10%	75%
THI2-2411M		5VDC	400mA	150mV pk-pk max.	non-regulated	12%	66%
THI2-2412M		12VDC	165mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-2413M		15VDC	133mA	150mV pk-pk max.	non-regulated	10%	66%
THI2-2422M		\pm 12VDC	\pm 83mA	150mV pk-pk max.	non-regulated	10%	74%
THI2-2423M		\pm 15VDC	\pm 66mA	150mV pk-pk max.	non-regulated	10%	75%

Mechanical and Connection Details



Pin	Single Output	Dual Output
1	-Vin (GND)	-Vin (GND)
7	No conn.	No conn.
8	No conn.	Common
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin (Vcc)	+Vin (Vcc)