

Features

- ◆ Wide 2:1 input voltage range
- ◆ Compact SIP-8 package
- ◆ Cost optimized design
- ◆ Temperature range -40°C to $+85^{\circ}\text{C}$
- ◆ I/O isolation 1000VDC
- ◆ Remote On/Off control
- ◆ Fully RoHS compliant
- ◆ 3-year product warranty



The TMR-2E series is a family of isolated 2 W dc-dc converter modules with regulated output, featuring wide 2:1 input voltage ranges. The product comes in a compact SIP-8 plastic package with small footprint occupying only 2.0 cm² (0.3 square in.) of board space.

An excellent efficiency allows -40°C to $+85^{\circ}\text{C}$ operation temperature. Further features include remote On/Off control and continuous short circuit protection. The compact dimensions and cost optimized design make this converters an ideal solution for applications in communication equipment, instrumentation and industrial electronics.

Models

Order code	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TMR 2-0510E	4.5 – 9.0 VDC (5 VDC nominal)	3.3 VDC	500 mA	70 %
TMR 2-0511E		5 VDC	400 mA	73 %
TMR 2-0512E		12 VDC	167 mA	75 %
TMR 2-1210E	9 – 18 VDC (12 VDC nominal)	3.3 VDC	500 mA	73 %
TMR 2-1211E		5 VDC	400 mA	77 %
TMR 2-1212E		12 VDC	167 mA	80 %
TMR 2-2410E	18 – 36 VDC (24 VDC nominal)	3.3 VDC	500 mA	72 %
TMR 2-2411E		5 VDC	400 mA	77 %
TMR 2-2412E		12 VDC	167 mA	81 %
TMR 2-4810E	36 – 75 VDC (48 VDC nominal)	3.3 VDC	500 mA	71 %
TMR 2-4811E		5 VDC	400 mA	73 %
TMR 2-4812E		12 VDC	167 mA	79 %

General Specifications

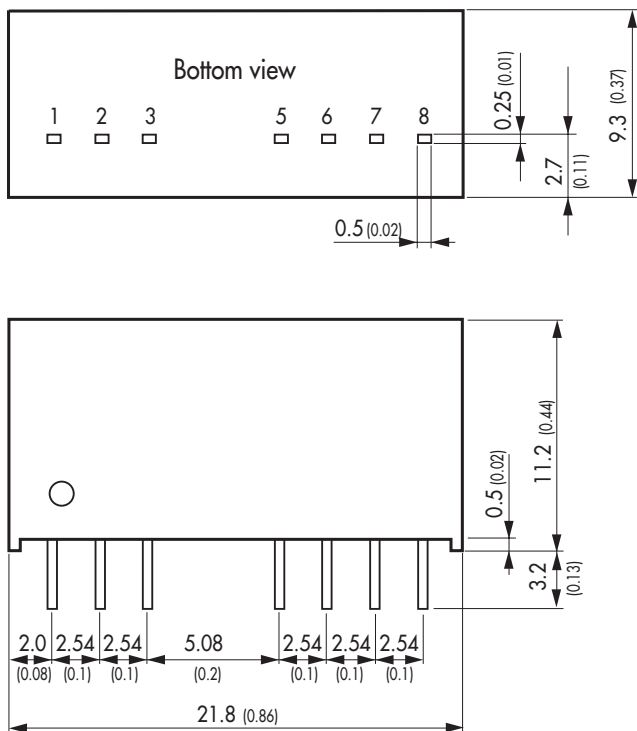
Switching frequency		100 – 650 kHz (FM)
Remote On/Off	<ul style="list-style-type: none"> - On: - Off: - Off control input current - Off idle current: 	<ul style="list-style-type: none"> < 0.6 VDC (ref. to -Vin) or open circuit 2.7 to 15 VDC (ref. to -Vin) 1 mA max. 0.2 mA max.
Environmental compliance	<ul style="list-style-type: none"> - Reach - RoHS 	www.tracopower.com/overview/tmr2e directive 2011/65/EU

Physical Specifications

Casing material	non-conductive plastic
Potting material	epoxy (UL 94V-0 rated)
Weight	4.8g (0.17 oz)
Soldering temperature	max. 260°C / 10 sec.

Application note: www.tracopower.com/products/tmr2e-application.pdf

Outline Dimensions



Pin-Out	
Pin	
1	-Vin (GND)
2	+Vin (Vcc)
3	Remote On/Off
5	No con.
6	+Vout
7	-Vout
8	No con.

No con. = Pin to be isolated from circuitry

Dimensions in [mm], () = Inch
Tolerances: ±0.5 (±0.02)
Pin pitch tolerances: ±0.25 (±0.01)

Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com