

### Features

- ◆ Highest power density in SIP package
- ◆ Wide 2:1 input voltage range
- ◆ Ultra-compact SIP-8 package
- ◆ Smallest footprint 6W converter
- ◆ Full SMD design
- ◆ Temperature range  $-40^{\circ}$  to  $+65^{\circ}\text{C}$
- ◆ High efficiency up to 86%
- ◆ Indefinite short-circuit protection
- ◆ I/O isolation 1500 VDC
- ◆ Remote On/Off control
- ◆ Fully RoHS compliant
- ◆ 3-year product warranty



The TMR-6 series is a new family of isolated 6W dc-dc converter modules with regulated output, featuring wide 2:1 input voltage ranges. The product comes in a ultra-compact SIP-8 plastic package with a small footprint occupying only 2.0 cm<sup>2</sup> (0.3 square in.) of board space.

An excellent efficiency allows  $-40^{\circ}$  to  $+65^{\circ}\text{C}$  operation temperatures. Further features include remote On/Off control and continuous short circuit protection. The very compact dimensions of these converters make them an ideal solution for many space critical applications in communication equipment, instrumentation and industrial electronics.

### Models

Order code	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TMR 6-0510	4.5 – 9.0 VDC (5 VDC nominal)	3.3 VDC	1300 mA	77 %
TMR 6-0511		5 VDC	1200 mA	81 %
TMR 6-0519		9 VDC	666 mA	83 %
TMR 6-0512		12 VDC	500 mA	84 %
TMR 6-0513		15 VDC	400 mA	84 %
TMR 6-0521		$\pm 5$ VDC	$\pm 600$ mA	81 %
TMR 6-0522		$\pm 12$ VDC	$\pm 250$ mA	84 %
TMR 6-0523		$\pm 15$ VDC	$\pm 200$ mA	84 %
TMR 6-1210	9 – 18 VDC (12 VDC nominal)	3.3 VDC	1300 mA	78 %
TMR 6-1211		5 VDC	1200 mA	83 %
TMR 6-1219		9 VDC	666 mA	84 %
TMR 6-1212		12 VDC	500 mA	85 %
TMR 6-1213		15 VDC	400 mA	85 %
TMR 6-1221		$\pm 5$ VDC	$\pm 600$ mA	82 %
TMR 6-1222		$\pm 12$ VDC	$\pm 250$ mA	83 %
TMR 6-1223		$\pm 15$ VDC	$\pm 200$ mA	84 %
TMR 6-2410	18 – 36 VDC (24 VDC nominal)	3.3 VDC	1300 mA	78 %
TMR 6-2411		5 VDC	1200 mA	83 %
TMR 6-2419		9 VDC	666 mA	84 %
TMR 6-2412		12 VDC	500 mA	85 %
TMR 6-2413		15 VDC	400 mA	86 %
TMR 6-2421		$\pm 5$ VDC	$\pm 600$ mA	82 %
TMR 6-2422		$\pm 12$ VDC	$\pm 250$ mA	84 %
TMR 6-2423		$\pm 15$ VDC	$\pm 200$ mA	84 %
TMR 6-4810	36 – 75 VDC (48 VDC nominal)	3.3 VDC	1300 mA	78 %
TMR 6-4811		5 VDC	1200 mA	82 %
TMR 6-4819		9 VDC	666 mA	84 %
TMR 6-4812		12 VDC	500 mA	85 %
TMR 6-4813		15 VDC	400 mA	86 %
TMR 6-4821		$\pm 5$ VDC	$\pm 600$ mA	82 %
TMR 6-4822		$\pm 12$ VDC	$\pm 250$ mA	84 %
TMR 6-4823		$\pm 15$ VDC	$\pm 200$ mA	85 %

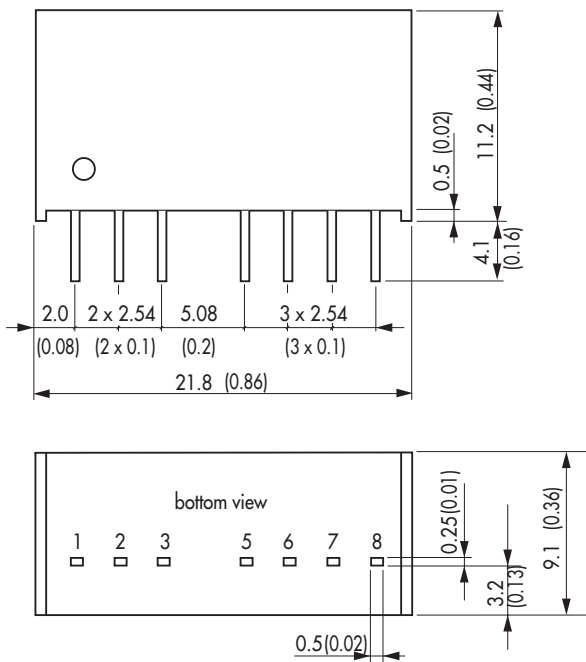


**Physical Specifications**

Casing material	non-conductive plastic
Potting material	silicon, (UL 94V-0 rated)
Weight	4.8 g (0.17oz)

**Application note:** [www.tracopower.com/products/tmr6-application.pdf](http://www.tracopower.com/products/tmr6-application.pdf)

**Outline Dimensions**



Pin-Out		
Pin	Single	Dual
1	-Vin (GND)	-Vin (GND)
2	+Vin (Vcc)	+Vin (Vcc)
3	Remote On/Off	Remote On/Off
5	No function	No function
6	+Vout	+Vout
7	-Vout	Common
8	No function	-Vout

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

Specifications can be changed any time without notice.