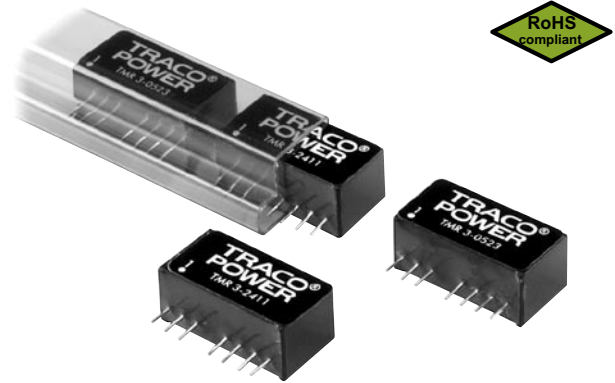


#### Features

- ◆ Wide 2:1 Input Voltage Range
- ◆ Ultra-compact SIP-8 Package
- ◆ Small Footprint
- ◆ Full SMD Design
- ◆ Temperature Range  $-40^{\circ}$  to  $+70^{\circ}\text{C}$
- ◆ High Efficiency
- ◆ Excellent Load and Line Regulation
- ◆ Indefinite Short-circuit Protection
- ◆ I/O-Isolation 1500 VDC
- ◆ Remote On/Off Control
- ◆ Fully RoHS compliant
- ◆ 3 Year Product Warranty



The TMR-3 series is a new family of isolated 3W dc-dc converter modules with regulated output, featuring wide 2:1 input voltage ranges. The product comes in an 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  $+70^{\circ}\text{C}$  operation temperatures at full load. 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 3-0510	4.5 – 9.0 VDC (5 VDC nominal)	3.3 VDC	700 mA	73 %
TMR 3-0511		5 VDC	600 mA	77 %
TMR 3-0512		12 VDC	250 mA	79 %
TMR 3-0513		15 VDC	200 mA	80 %
TMR 3-0521		$\pm 5$ VDC	$\pm 300$ mA	77 %
TMR 3-0522		$\pm 12$ VDC	$\pm 125$ mA	79 %
TMR 3-0523		$\pm 15$ VDC	$\pm 100$ mA	80 %
TMR 3-1210	9 – 18 VDC (12 VDC nominal)	3.3 VDC	700 mA	74 %
TMR 3-1211		5 VDC	600 mA	78 %
TMR 3-1212		12 VDC	250 mA	80 %
TMR 3-1213		15 VDC	200 mA	81 %
TMR 3-1221		$\pm 5$ VDC	$\pm 300$ mA	80 %
TMR 3-1222		$\pm 12$ VDC	$\pm 125$ mA	81 %
TMR 3-1223		$\pm 15$ VDC	$\pm 100$ mA	81 %
TMR 3-2410	18 – 36 VDC (24 VDC nominal)	3.3 VDC	700 mA	74 %
TMR 3-2411		5 VDC	600 mA	78 %
TMR 3-2412		12 VDC	250 mA	80 %
TMR 3-2413		15 VDC	200 mA	81 %
TMR 3-2421		$\pm 5$ VDC	$\pm 300$ mA	80 %
TMR 3-2422		$\pm 12$ VDC	$\pm 125$ mA	81 %
TMR 3-2423		$\pm 15$ VDC	$\pm 100$ mA	81 %
TMR 3-4810	36 – 75 VDC (48 VDC nominal)	3.3 VDC	700 mA	74 %
TMR 3-4811		5 VDC	600 mA	78 %
TMR 3-4812		12 VDC	250 mA	80 %
TMR 3-4813		15 VDC	200 mA	81 %
TMR 3-4821		$\pm 5$ VDC	$\pm 300$ mA	80 %
TMR 3-4822		$\pm 12$ VDC	$\pm 125$ mA	81 %
TMR 3-4823		$\pm 15$ VDC	$\pm 100$ mA	81 %

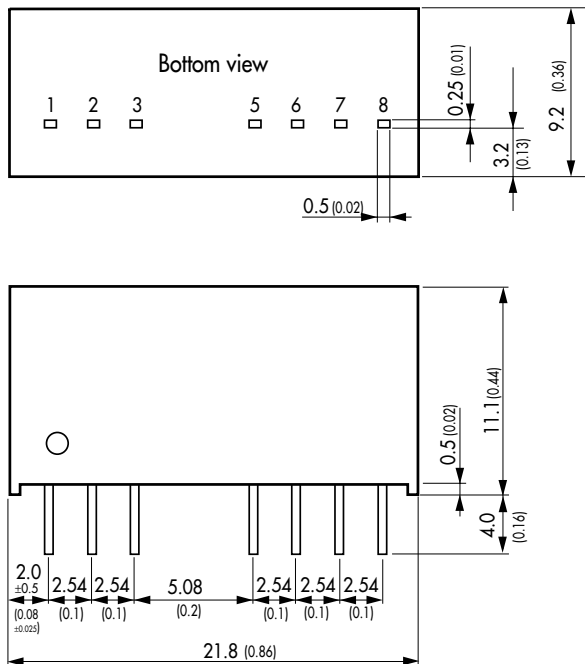


**Physical Specifications**

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

Application note can be downloaded under:  
[www.tracopower.com/products/tmr3\\_application.pdf](http://www.tracopower.com/products/tmr3_application.pdf)

**Outline Dimensions mm (inches)**



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

Specifications can be changed any time without notice.