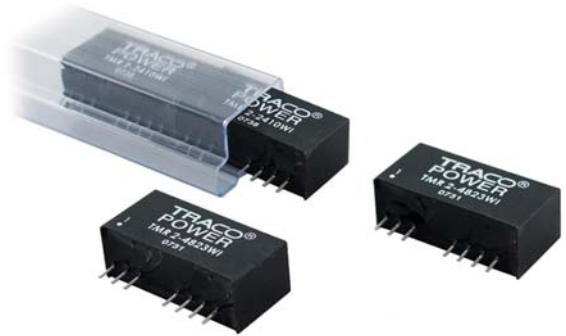


### Features

- ◆ Ultra-wide 4:1 input range
- ◆ SIP-9 package
- ◆ Full SMD design
- ◆ Temperature range  $-40$  to  $+85^{\circ}\text{C}$
- ◆ 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



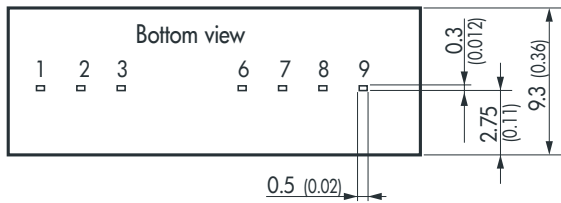
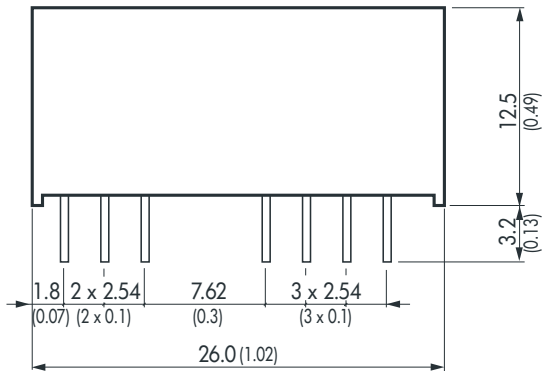
The TMR-2WI series is a new family of isolated 2W dc-dc converter modules with regulated output, featuring ultra-wide 4:1 input voltage ranges of 9-36 VDC or 18-75 VDC. The product comes in a ultra-compact SIP-9 plastic package. An excellent efficiency up to 84% allows  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  operation temperatures at full load. Further features include remote On/Off control and continuous short circuit protection. Typical applications for these ultra-compact converters are battery operated equipment and distributed power architectures in communication, instrumentation and industrial electronics, everywhere where space on the PCB is critical.

### Models

Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TMR 2-2410WI	9 – 36 VDC (24 VDC nominal)	3.3 VDC	500 mA	71 %
TMR 2-2411WI		5 VDC	400 mA	76 %
TMR 2-2412WI		12 VDC	165 mA	79 %
TMR 2-2413WI		15 VDC	135 mA	80 %
TMR 2-2421WI		$\pm 5$ VDC	$\pm 200$ mA	73 %
TMR 2-2422WI		$\pm 12$ VDC	$\pm 85$ mA	77 %
TMR 2-2423WI		$\pm 15$ VDC	$\pm 65$ mA	79 %
TMR 2-4810WI	18 – 75 VDC (48 VDC nominal)	3.3 VDC	500 mA	70 %
TMR 2-4811WI		5 VDC	400 mA	72 %
TMR 2-4812WI		12 VDC	165 mA	78 %
TMR 2-4813WI		15 VDC	135 mA	78 %
TMR 2-4821WI		$\pm 5$ VDC	$\pm 200$ mA	70 %
TMR 2-4822WI		$\pm 12$ VDC	$\pm 85$ mA	76 %
TMR 2-4823WI		$\pm 15$ VDC	$\pm 65$ mA	76 %



**Outline Dimensions**



Pin-Out		
Pin	Single	Dual
1	-Vin (GND)	-Vin (GND)
2	+Vin (Vcc)	+Vin (Vcc)
3	Remote On/Off	Remote On/Off
6	+Vout	+Vout
7	ntc	Common
8	ntc	ntc
9	-Vout	-Vout

(ntc = not to connect)

Dimensions in [mm], ( ) = Inch  
 Pin diameter  $\varnothing 0.5 \pm 0.05$  (0.02  $\pm 0.002$ )  
 Tolerances  $\pm 0.5$  ( $\pm 0.02$ )  
 Pin pitch tolerances  $\pm 0.2$  ( $\pm 0.008$ )

Specifications can be changed any time without notice.