



#### Features

- ◆ Ultra-wide 4:1 Input Range
- ◆ SIP-9 Package
- ◆ Full SMD Design
- ◆ Temperature Range -40 to +75°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



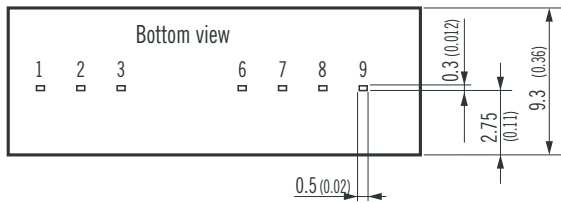
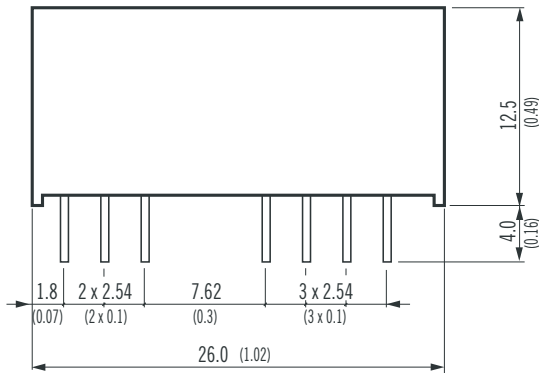
The TMR-2WI series is a new family of isolated 2W dc-dc converter modules with regulated output, featuring ultra-wide 4:1 input voltage ranges of 9-36 VDC or 18-75 VDC. The product comes in a ultra-compact SIP-9 plastic package. An excellent efficiency up to 84% allows -40°C to +75°C operation temperatures 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	75 %
TMR 2-2411WI		5 VDC	400 mA	80 %
TMR 2-2412WI		12 VDC	165 mA	83 %
TMR 2-2413WI		15 VDC	135 mA	84 %
TMR 2-2421WI		± 5 VDC	±200 mA	77 %
TMR 2-2422WI		±12 VDC	±85 mA	81 %
TMR 2-2423WI		±15 VDC	±65 mA	83 %
TMR 2-4810WI	18 – 75 VDC (48 VDC nominal)	3.3 VDC	500 mA	75 %
TMR 2-4811WI		5 VDC	400 mA	80 %
TMR 2-4812WI		12 VDC	165 mA	83 %
TMR 2-4813WI		15 VDC	135 mA	84 %
TMR 2-4821WI		± 5 VDC	±200 mA	77 %
TMR 2-4822WI		±12 VDC	±85 mA	81 %
TMR 2-4823WI		±15 VDC	±65 mA	83 %



**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	No function	Common
8	No function	No function
9	-Vout	-Vout

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

Specifications can be changed any time without notice.