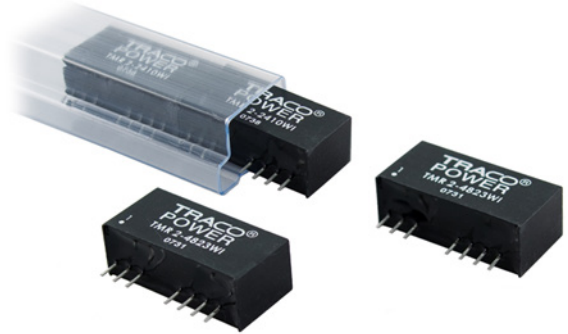


Features

- ◆ 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°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

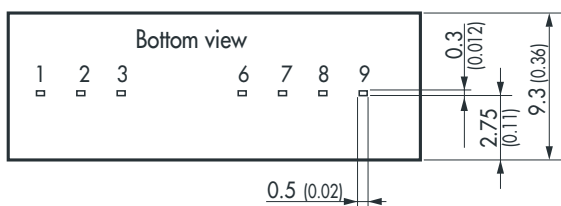
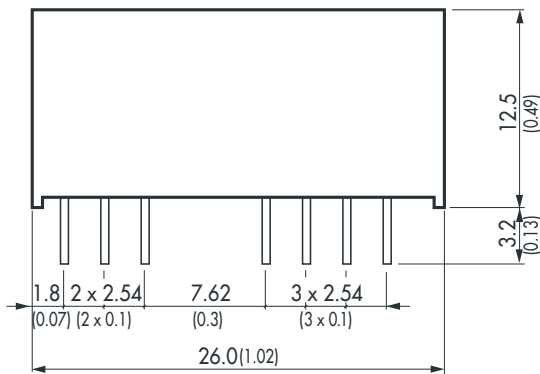
| Ordercode | Input voltage range | Output voltage | Output current max. | Efficiency typ. |
|--------------|---------------------------------|----------------|---------------------|-----------------|
| TMR 2-2410WI | 9 – 36 VDC (24 VDC nominal) | 3.3 VDC | 500 mA | 71 % |
| TMR 2-2411WI | | 5 VDC | 400 mA | 76 % |
| TMR 2-2412WI | | 12 VDC | 165 mA | 79 % |
| TMR 2-2413WI | | 15 VDC | 135 mA | 80 % |
| TMR 2-2421WI | | ± 5 VDC | ± 200 mA | 73 % |
| TMR 2-2422WI | | ± 12 VDC | ± 85 mA | 77 % |
| TMR 2-2423WI | | ± 15 VDC | ± 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 | | ± 5 VDC | ± 200 mA | 70 % |
| TMR 2-4822WI | | ± 12 VDC | ± 85 mA | 76 % |
| TMR 2-4823WI | | ± 15 VDC | ± 65 mA | 76 % |

Physical Specifications

| | |
|-----------------------|------------------------|
| Casing material | non-conductive plastic |
| Potting material | epoxy (UL 94V-0 rated) |
| Weight | 6.5 g (0.23 oz) |
| Soldering temperature | max. 260°C / 10 sec. |

Application note: www.tracopower.com/products/tmr2wi-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 |
| 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 ± 0.002)
 Tolerances ± 0.5 (± 0.02)
 Pin pitch tolerances ± 0.2 (± 0.008)

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