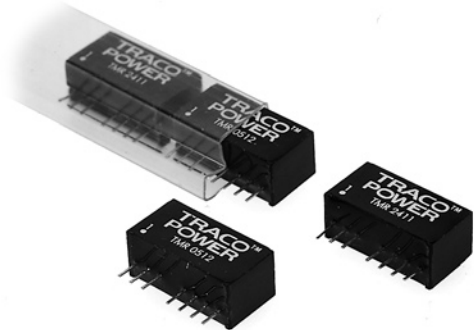


Features

- ◆ Wide 2:1 input voltage range
- ◆ Compact SIP-8 package
- ◆ Small footprint
- ◆ 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 1000VDC
- ◆ Remote On/Off control
- ◆ Fully RoHS compliant
- ◆ 3-year product warranty



The TMR-2 series is a family of isolated 2W dc-dc converter modules with regulated output, featuring wide 2:1 input voltage ranges. The product comes in a compact SIP-8 plastic package with small footprint occupying only 2.0 cm² (0.3 square in.) of board space.

An excellent efficiency allows -40° to $+85^{\circ}\text{C}$ operation temperatures. Further features include remote On/Off control and continuous short circuit protection. The ultra-compact dimensions of these converters make them an ideal solution for many space critical applications in communication equipment, instrumentation and industrial electronics.

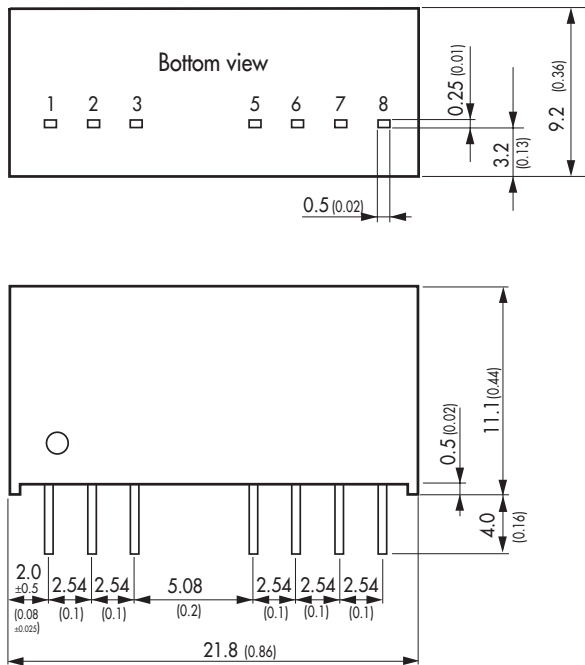
Models

| Ordercode | Input voltage range | Output voltage | Output current max. | Efficiency typ. |
|-----------|---|----------------|---------------------|-----------------|
| TMR 0510 | 4.5 – 9.0 VDC (5 VDC nominal) | 3.3 VDC | 500 mA | 64 % |
| TMR 0511 | | 5 VDC | 400 mA | 66 % |
| TMR 0512 | | 12 VDC | 165 mA | 71 % |
| TMR 0521 | | ± 5 VDC | ± 200 mA | 64 % |
| TMR 0522 | | ± 12 VDC | ± 85 mA | 69 % |
| TMR 0523 | | ± 15 VDC | ± 65 mA | 71 % |
| TMR 1210 | 9 – 18 VDC (12 VDC nominal) | 3.3 VDC | 500 mA | 70 % |
| TMR 1211 | | 5 VDC | 400 mA | 73 % |
| TMR 1212 | | 12 VDC | 165 mA | 80 % |
| TMR 1221 | | ± 5 VDC | ± 200 mA | 73 % |
| TMR 1222 | | ± 12 VDC | ± 85 mA | 78 % |
| TMR 1223 | | ± 15 VDC | ± 65 mA | 78 % |
| TMR 2410 | 18 – 36 VDC (24 VDC nominal) | 3.3 VDC | 500 mA | 71 % |
| TMR 2411 | | 5 VDC | 400 mA | 74 % |
| TMR 2412 | | 12 VDC | 165 mA | 81 % |
| TMR 2421 | | ± 5 VDC | ± 200 mA | 74 % |
| TMR 2422 | | ± 12 VDC | ± 85 mA | 78 % |
| TMR 2423 | | ± 15 VDC | ± 65 mA | 80 % |
| TMR 4810 | 36 – 75 VDC (48 VDC nominal) | 3.3 VDC | 500 mA | 70 % |
| TMR 4811 | | 5 VDC | 400 mA | 73 % |
| TMR 4812 | | 12 VDC | 165 mA | 79 % |
| TMR 4821 | | ± 5 VDC | ± 200 mA | 71 % |
| TMR 4822 | | ± 12 VDC | ± 85 mA | 77 % |
| TMR 4823 | | ± 15 VDC | ± 65 mA | 77 % |

Physical Specifications

| | |
|------------------|--|
| Casing material | non-conductive plastic |
| Potting material | epoxy (UL 94V-0-rated) |
| Weight | 4.8 g (0.17oz) Physical Specifications |

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 |

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

Specifications can be changed any time without notice