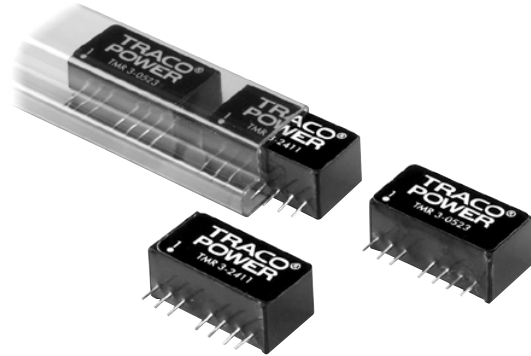


Features

- ◆ Wide 2:1 input voltage range
- ◆ Ultra-compact SIP-8 package
- ◆ Small footprint
- ◆ Full SMD design
- ◆ Temperature range -40° 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 cm² (0.3 square in.) of board space.

An excellent efficiency allows -40° 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.

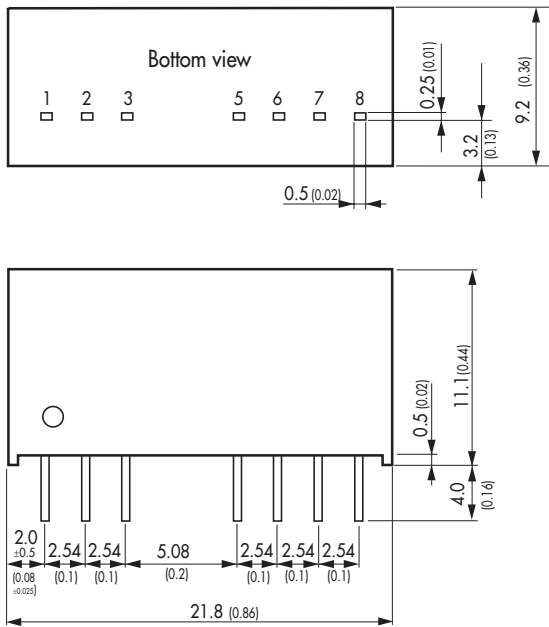
| Models | | | | |
|------------|----------------------------------|----------------|---------------------|-----------------|
| Order code | Input voltage range | Output voltage | Output current max. | Efficiency typ. |
| TMR 3-0510 | 4.5 – 9.0 VDC (5 VDC nominal) | 3.3 VDC | 700 mA | 73 % |
| TMR 3-0511 | | 5 VDC | 600 mA | 77 % |
| TMR 3-0512 | | 12 VDC | 250 mA | 79 % |
| TMR 3-0513 | | 15 VDC | 200 mA | 80 % |
| TMR 3-0521 | | ± 5 VDC | ± 300 mA | 77 % |
| TMR 3-0522 | | ± 12 VDC | ± 125 mA | 79 % |
| TMR 3-0523 | | ± 15 VDC | ± 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 | | ± 5 VDC | ± 300 mA | 80 % |
| TMR 3-1222 | | ± 12 VDC | ± 125 mA | 81 % |
| TMR 3-1223 | | ± 15 VDC | ± 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 | | ± 5 VDC | ± 300 mA | 80 % |
| TMR 3-2422 | | ± 12 VDC | ± 125 mA | 81 % |
| TMR 3-2423 | | ± 15 VDC | ± 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 | | ± 5 VDC | ± 300 mA | 80 % |
| TMR 3-4822 | | ± 12 VDC | ± 125 mA | 81 % |
| TMR 3-4823 | | ± 15 VDC | ± 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

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.