



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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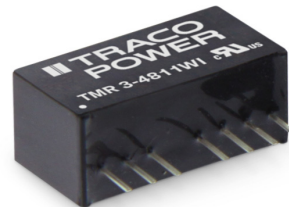
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Features

- ◆ Highest power density in SIP package
- ◆ Ultra wide 4:1 input range
- ◆ Small footprint: 21.8 x 9.2 mm
- ◆ Temperature range -40° to $+85^{\circ}\text{C}$
- ◆ High efficiency up to 82%
- ◆ Excellent load and line regulation
- ◆ Short-circuit protection
- ◆ I/O isolation 1600 VDC
- ◆ Remote On/Off control
- ◆ 3-year product warranty



The TMR-3WI series is a new family of isolated 3W DC/DC converters with regulated output, featuring ultra-wide 4:1 input voltage range. The product comes in a ultra-compact SIP plastic package with a 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 very compact dimensions of these converters make them an ideal solution for many space critical applications in battery-powered equipment and instrumentation.

Models				
Order code	Input voltage	Output voltage	Output current max.	Efficiency typ.
TMR 3-1210WI	4.5 – 18 VDC (12 VDC nominal)	3.3 VDC	700 mA	74 %
TMR 3-1211WI		5 VDC	600 mA	78 %
TMR 3-1212WI		12 VDC	250 mA	80 %
TMR 3-1213WI		15 VDC	200 mA	80 %
TMR 3-1221WI		± 5 VDC	± 300 mA	80 %
TMR 3-1222WI		± 12 VDC	± 125 mA	80 %
TMR 3-1223WI		± 15 VDC	± 100 mA	80 %
TMR 3-2410WI		9 – 36 VDC (24 VDC nominal)	3.3 VDC	700 mA
TMR 3-2411WI	5 VDC		600 mA	80 %
TMR 3-2412WI	12 VDC		250 mA	82 %
TMR 3-2413WI	15 VDC		200 mA	82 %
TMR 3-2421WI	± 5 VDC		± 300 mA	79 %
TMR 3-2422WI	± 12 VDC		± 125 mA	81 %
TMR 3-2423WI	± 15 VDC		± 100 mA	81 %
TMR 3-4810WI	18 – 75 VDC (48 VDC nominal)		3.3 VDC	700 mA
TMR 3-4811WI		5 VDC	600 mA	80 %
TMR 3-4812WI		12 VDC	250 mA	81 %
TMR 3-4813WI		15 VDC	200 mA	81 %
TMR 3-4821WI		± 5 VDC	± 300 mA	79 %
TMR 3-4822WI		± 12 VDC	± 125 mA	81 %
TMR 3-4823WI		± 15 VDC	± 100 mA	81 %

General Specifications

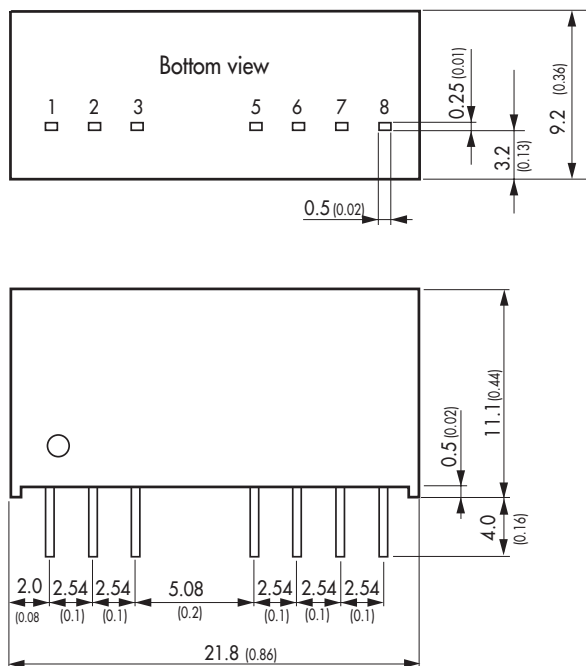
Isolation voltage (60 sec.)	- Input/Output	1'600 VDC
Isolation capacitance	- Input/Output	200 pF max.
Isolation resistance	- Input/Output (500 VDC)	>1 GOhm
Switching frequency		100 kHz min. (PFM)
Remote On/Off	- On: - Off: - Off stand by input current	open or high impedance 2...4 mA to applied via 1 kOhm resistor 2.5 mA max.
Vibration and thermal shock		MIL-STD-810F
Safety standards		UL /cUL 60950-1, IEC 60950-1:2005 (2nd Edition); +A1:2009 www.tracopower.com/overview/tmr3wi
Environmental compliance	- Reach - RoHS	www.tracopower.com/info/reach-declaration.pdf RoHS Directive 2011/65/EU
Altitude	- operation - non operation	< 40'000ft (12'000m) < 50'000ft (15'000m)

Physical Specifications

Casing material	non-conductive plastic
Potting material	silicone, UL 94V-0 rated
Weight	4.8 g (0.17oz)

Supporting documents: www.tracopower.com/overview/tmr3wi

Outline Dimensions



Pin-Out		
Pin	Single	Dual
1	-Vin (GND)	-Vin (GND)
2	+Vin (Vcc)	+Vin (Vcc)
3	Remote On/Off	Remote On/Off
5	No con.	No con.
6	+Vout	+Vout
7	-Vout	Common
8	No con.	-Vout

Dimensions in [mm], () = Inch
Pin dimension tolerances 0.1 (0.004)
Pin pitch tolerances: ±0.25 (±0.01)
Tolerances: ±0.5 (±0.02)

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