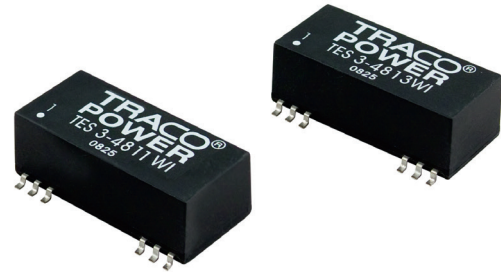


Features

- ◆ Compact SMD package
- ◆ 33.4 x 18.8 mm footprint
- ◆ Ultra-wide 4:1 input voltage range
- ◆ I/O isolation 1500 VDC
- ◆ Operating temp. range -40°C to $+71^{\circ}\text{C}$
- ◆ Short circuit protection
- ◆ Input filter to meet EN 55022, class A
- ◆ Remote On/Off
- ◆ High accuracy of pin co-planarity
- ◆ Qualified for leadfree reflow solder process according IPC/JEDEC J-STD-020D
- ◆ Available in tape & reel package
- ◆ 3-year product warranty



The TES-3WI series is a family of high performance 3W dc/dc-converter modules in a low profile SMD package with compact dimensions. The 14 modules feature ultra-wide 4:1 input ranges with tightly regulated output voltage. High efficiency allows an operating temperature range of -40°C to $+71^{\circ}\text{C}$ at full load.

Further features are built-in EMI-filter to meet EN 55022 class A without external components and remote On/Off control. The products comply with IPC J-STD-020D and are qualified for high temperature lead-free reflow solder process.

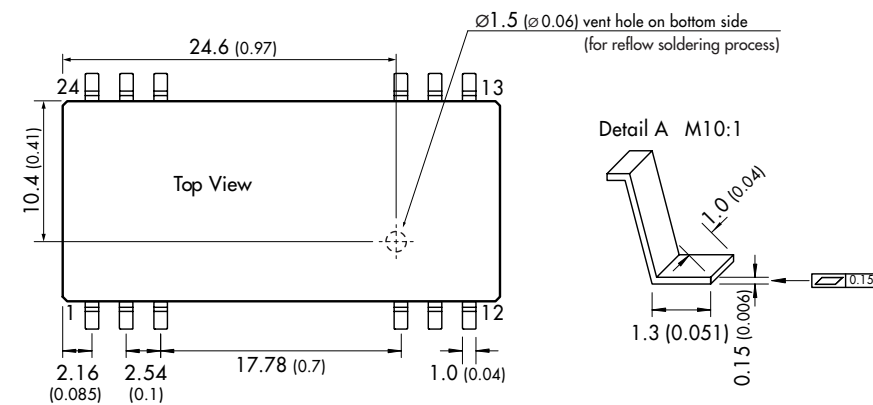
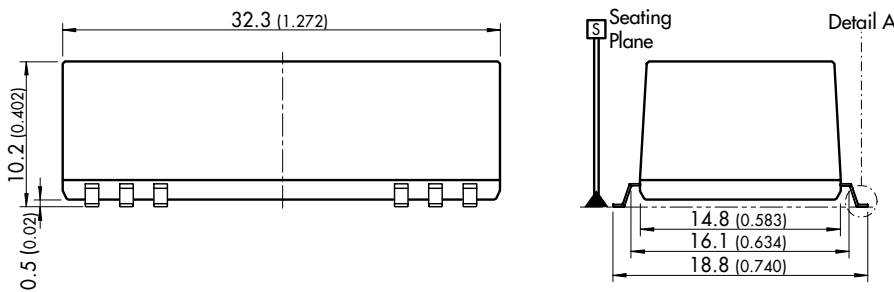
Models

| Ordercode | Input voltage | Output voltage | Output current max. | Efficiency typ. |
|--------------|---------------------------------|----------------|---------------------|-----------------|
| TES 3-2410WI | 9 – 36 VDC (nominal 24 VDC) | 3.3 VDC | 750 mA | 75 % |
| TES 3-2411WI | | 5 VDC | 600 mA | 79 % |
| TES 3-2412WI | | 12 VDC | 250 mA | 81 % |
| TES 3-2413WI | | 15 VDC | 200 mA | 81 % |
| TES 3-2421WI | | ± 5 VDC | ± 300 mA | 78 % |
| TES 3-2422WI | | ± 12 VDC | ± 125 mA | 81 % |
| TES 3-2423WI | | ± 15 VDC | ± 100 mA | 81 % |
| TES 3-4810WI | 18 – 75 VDC (nominal 48 VDC) | 3.3 VDC | 750 mA | 76 % |
| TES 3-4811WI | | 5 VDC | 600 mA | 80 % |
| TES 3-4812WI | | 12 VDC | 250 mA | 83 % |
| TES 3-4813WI | | 15 VDC | 200 mA | 83 % |
| TES 3-4821WI | | ± 5 VDC | ± 300 mA | 80 % |
| TES 3-4822WI | | ± 12 VDC | ± 125 mA | 83 % |
| TES 3-4823WI | | ± 15 VDC | ± 100 mA | 83 % |

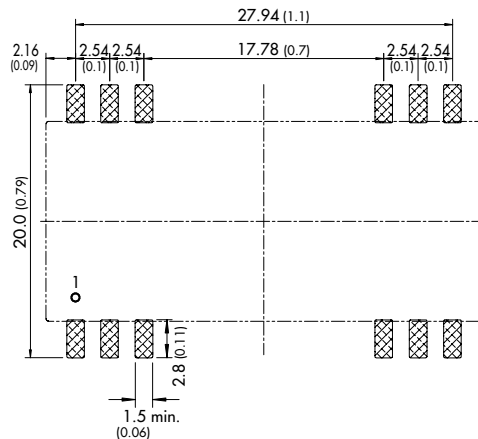
Physical Specifications

| | |
|----------------------------------|---|
| Casing material | non conductive plastic (UL 94V-0 rated) |
| Package weight | 8.8 g (0.31oz) |
| Lead-free reflow solder process | as per J-STD-020D.1 (to find at: www.jedec.org - free registration required) |
| Moisture sensitivity level (MSL) | level 2 as per J-STD-033B.1 (to find at: www.jedec.org - free registration required) |
| Washing process | Allowed (vent-hole with membrane) |

Outline Dimensions



Solder Pad Dimension



| Pin-Out | | |
|---------|---------------|---------------|
| Pin | Single | Dual |
| 1 | -Vin (GND) | -Vin (GND) |
| 2 | -Vin (GND) | -Vin (GND) |
| 3 | Remote On/Off | Remote On/Off |
| 10 | No con. | Common |
| 11 | No con. | No con. |
| 12 | No con. | -V Output |
| 13 | +V Output | +V Output |
| 14 | No con. | No con. |
| 15 | -V Output | Common |
| 22 | No con. | No con. |
| 23 | +Vin (Vcc) | +Vin (Vcc) |
| 24 | +Vin (Vcc) | +Vin (Vcc) |

No con. = Pin to be isolated from circuitry

Dimensions in [mm], () = Inch
Tolerances ± 0.25 (± 0.01)
Pin pitch tolerances ± 0.13 (± 0.005)

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

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