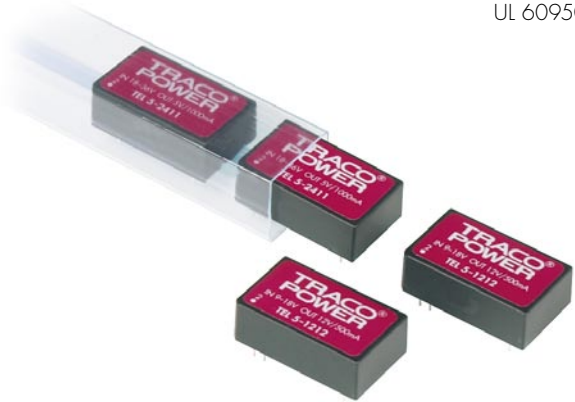




Features

- ◆ Wide 2:1 Input Range
- ◆ Cost efficient SMD-Design
- ◆ High Power Density
- ◆ High Efficiency up to 86%
- ◆ Regulated Outputs
- ◆ I/O-Isolation 1'500 VDC
- ◆ Indefinite Short-Circuit Protection
24-pin DIP with Industry Standard Pinout
- ◆ High Reliability, MTBF >1 Mio. h
- ◆ Internal EMI Filter to comply with
EN 55022, Class A (optional)
- ◆ Lead free Design, RoHS compliant
- ◆ 3 Year Product Warranty



The TEL 5 Series is a range of DC/DC-converter modules with wide input range of 2:1. State of the art SMD-technology guarantees a product with very high reliability and excellent cost /performance ratio. High efficiency allows an operating temperature range of -25°C to $+71^{\circ}\text{C}$ at full load. This product series provides an economical solution for many cost critical applications in industrial and consumer electronics.

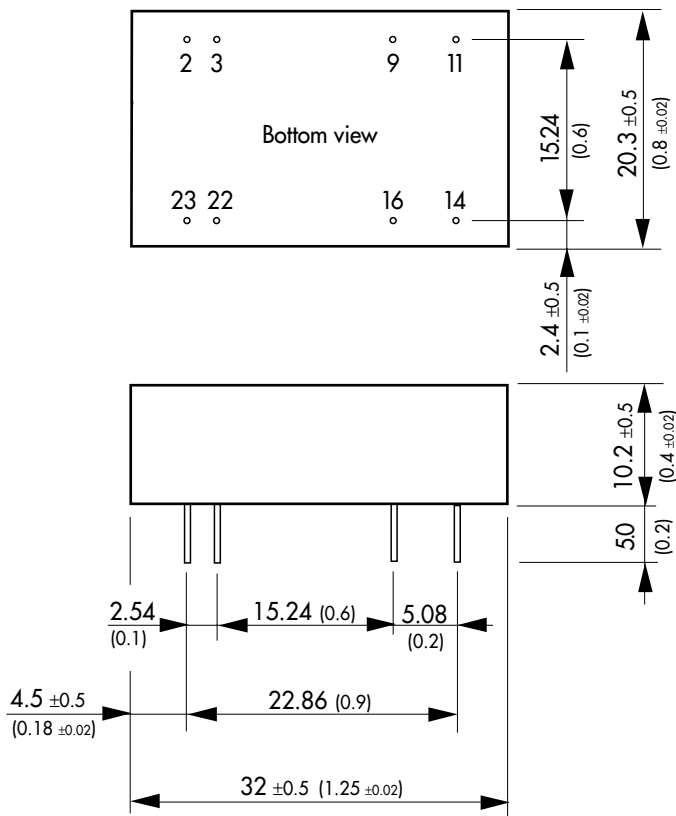
Models

| Ordercode | Input voltage range | Output voltage | Output current max. | Efficiency typ. |
|------------|---------------------|----------------|---------------------|-----------------|
| TEL 5-1210 | 9 – 18 VDC | 3.3 VDC | 1200 mA | 77 % |
| TEL 5-1211 | | 5 VDC | 1000 mA | 81 % |
| TEL 5-1212 | | 12 VDC | 500 mA | 84 % |
| TEL 5-1222 | | ± 12 VDC | ± 250 mA | 84 % |
| TEL 5-1223 | | ± 15 VDC | ± 200 mA | 84 % |
| TEL 5-2410 | 18 – 36 VDC | 3.3 VDC | 1200 mA | 79 % |
| TEL 5-2411 | | 5 VDC | 1000 mA | 83 % |
| TEL 5-2412 | | 12 VDC | 500 mA | 86 % |
| TEL 5-2422 | | ± 12 VDC | ± 250 mA | 86 % |
| TEL 5-2423 | | ± 15 VDC | ± 200 mA | 86 % |

Physical Specifications

| | |
|-----------------------|---|
| Case material | non conductive plastic (UL 94V-0 rated) |
| Weight | 17 g (0.60 oz) |
| Soldering temperature | max. 265 °C / 10 sec. |

Outline Dimensions mm (inches)



| Pin-Out | | |
|---------|------------|------------|
| Pin | Single | Dual |
| 2 | -Vin (GND) | -Vin (GND) |
| 3 | -Vin (GND) | -Vin (GND) |
| 9 | No pin | Common |
| 11 | No con. | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin (Vcc) | +Vin (Vcc) |
| 23 | +Vin (Vcc) | +Vin (Vcc) |

Pin diameter $\varnothing 0.5 \pm 0.05$ (0.02 ±0.002)
Tolerances ± 0.5 (0.02)

Specifications can be changed any time without notice