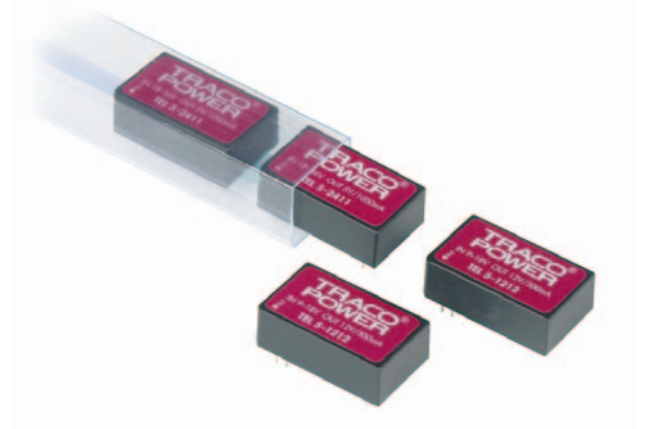


Features

- ◆ 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
- ◆ 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 -40°C to $+85^{\circ}\text{C}$ at full load. This product series provides an economical solution for many cost critical applications in industrial and consumer electronics.

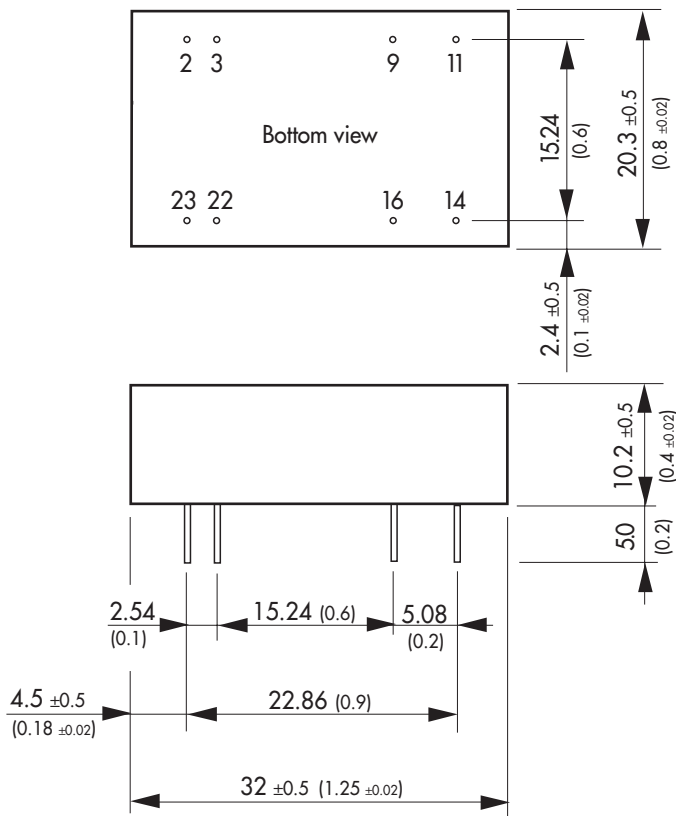
Models

Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TEL 5-1210	9 – 18 VDC (nominal 12 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 (nominal 24 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

Casing 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.