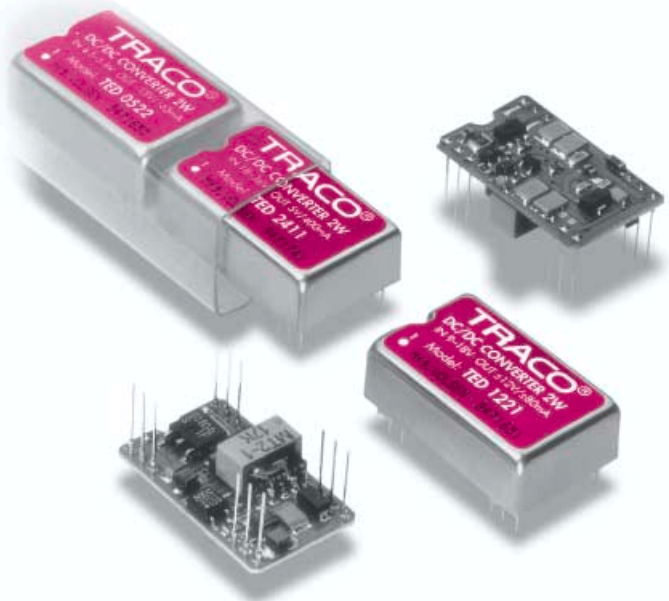


#### Features

- Full SMD design with Ceramic Capacitors
- Wide 2:1 Input range
- High Efficiency
- Short Circuit Protection
- Dual Output Models with galvanic isolated Outputs
- Metal Case, 24-Pin DIP
- 2 Year Product Warranty



The TED-series are high performance, isolated DC/DC-converters with wide 2 :1 input range. They are ideally suited for distributed power systems in telecommunications, industrial electronics and test equipment. Full SMT-design with exclusive use of ceramic chip-capacitors guarantees very high reliability with a calculated MTBF of over 1Mil.h. A highly automated production with 100% parameter test of each converter ensures the high quality standard of this product.

#### Models

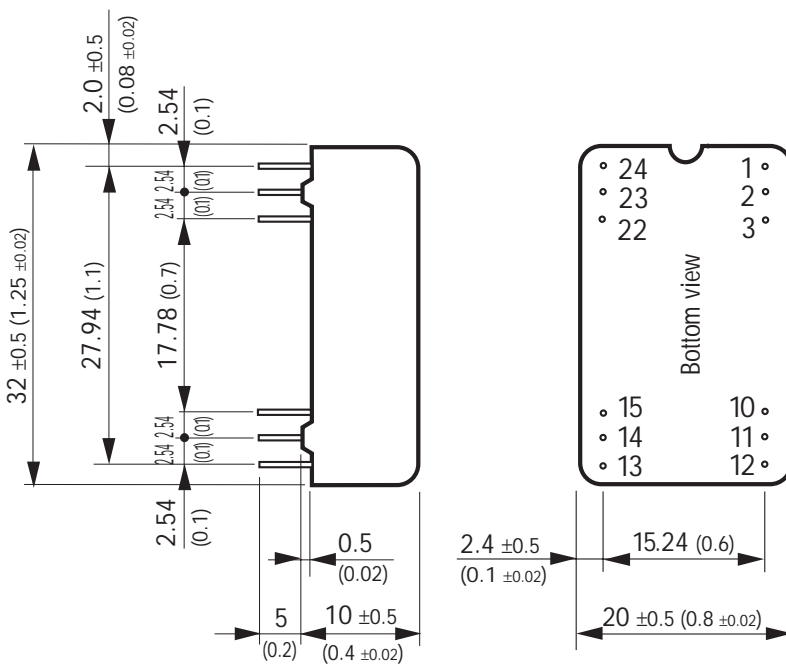
Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TED 0511 TED 0512 TED 0514 TED 0521 TED 0522	4.5 – 5.5 VDC	5 VDC 12 VDC 24 VDC ±12 VDC ±15 VDC	400 mA 160 mA 80 mA ± 80 mA ± 65 mA	64 % 66 % 66 % 64 % 64 %
TED 1211 TED 1212 TED 1214 TED 1221 TED 1222	9 – 18 VDC	5 VDC 12 VDC 24 VDC ±12 VDC ±15 VDC	400 mA 160 mA 80 mA ± 80 mA ± 65 mA	76 % 78 % 78 % 72 % 72 %
TED 2411 TED 2412 TED 2414 TED 2421 TED 2422	18 – 36 VDC	5 VDC 12 VDC 24 VDC ±12 VDC ±15 VDC	400 mA 160 mA 80 mA ± 80 mA ± 65 mA	77 % 78 % 78 % 73 % 73 %



**Physical Specifications**

Case material	Steel nickel-plated
Potting material	Silicon rubber TSE (UL 94V-0)
Weight	14 g (0.49 oz)
Soldering temperature	max. 260°C / 10 sec

**Outline Dimensions mm (inches)**



Pin-Out		
Pin	Single	Dual
1	+Vin (Vcc)	+Vin (Vcc)
2	No function	-Vout 2
3	No function	+Vout 2
10	-Vout	-Vout 1
11	+Vout	+Vout 1
12	-Vin (GND)	-Vin (GND)
13	-Vin (GND)	-Vin (GND)
14	+Vout	+Vout 1
15	-Vout	-Vout 1
22	No function	+Vout 2
23	No function	-Vout 2
24	+Vin (Vcc)	+Vin (Vcc)

Pin ø 0.5 (0.02)

Tolerances ±0.5 (0.01)

Specifications can be changed without notice