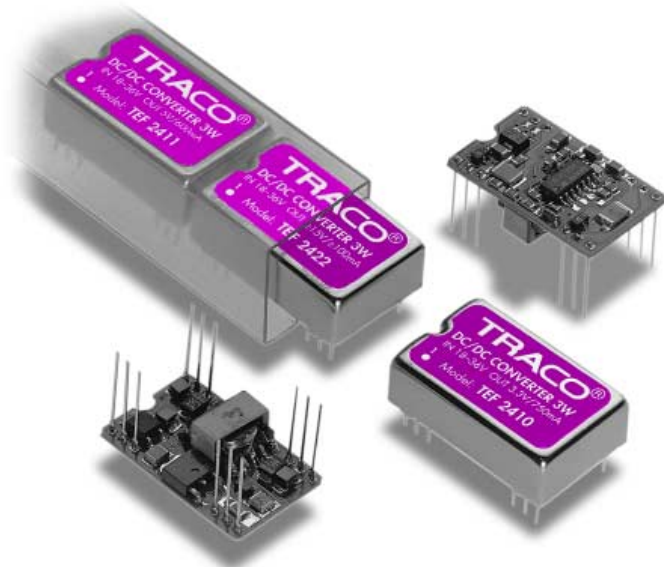


Features

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



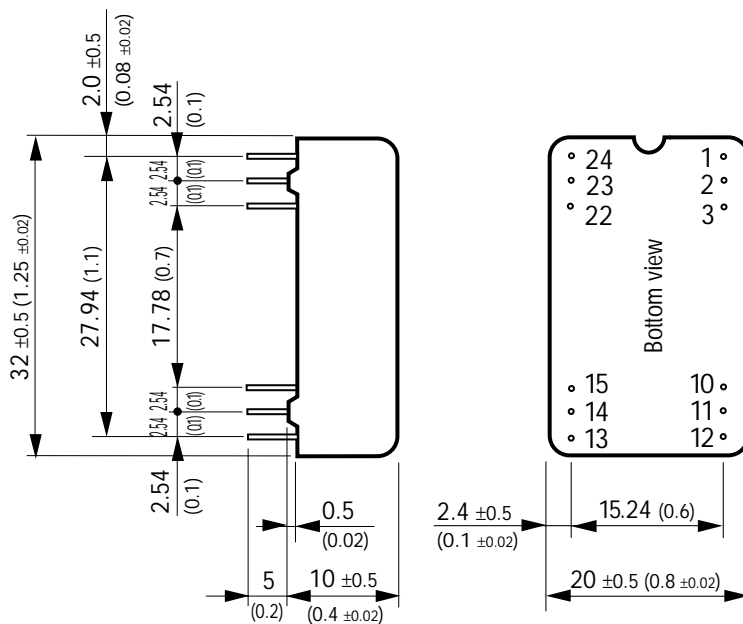
The TEF-series is a family of isolated dc/dc-converters that offers a cost effective solution for applications requiring miniature size and high performance features. SMT-design with exclusive use of ceramic capacitors guarantees a very high reliability with an MTBF of over 1'000'000 hours. A highly automated production with 100% parameter test ensures a high quality standard of this product.

Models				
Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TEF 0510	4.5 – 7 VDC	3.3 VDC	650 mA	69 %
TEF 0511		5 VDC	500 mA	72 %
TEF 0512		12 VDC	240 mA	74 %
TEF 0521		±12 VDC	± 125 mA	74 %
TEF 0522		±15 VDC	± 95 mA	74 %
TEF 1210	9 – 18 VDC	3.3 VDC	700 mA	71 %
TEF 1211		5 VDC	550 mA	73 %
TEF 1212		12 VDC	250 mA	78 %
TEF 1221		±12 VDC	± 125 mA	78 %
TEF 1222		±15 VDC	± 100 mA	78 %
TEF 2010	10 – 30 VDC	3.3 VDC	700 mA	72 %
TEF 2011		5 VDC	550 mA	75 %
TEF 2012		12 VDC	250 mA	80 %
TEF 2021		±12 VDC	± 125 mA	80 %
TEF 2022		±15 VDC	± 100 mA	80 %
TEF 2410	18 – 36 VDC	3.3 VDC	700 mA	76 %
TEF 2411		5 VDC	600 mA	80 %
TEF 2412		12 VDC	250 mA	82 %
TEF 2421		±12 VDC	± 125 mA	82 %
TEF 2422		±15 VDC	± 100 mA	83 %
TEF 4810	36 – 72 VDC	3.3 VDC	700 mA	76 %
TEF 4811		5 VDC	600 mA	80 %
TEF 4812		12 VDC	250 mA	82 %
TEF 4821		±12 VDC	± 125 mA	82 %
TEF 4822		±15 VDC	± 100 mA	83 %

Physical Specifications

Case material	Steel nickel-plated
Potting material	Silicon rubber TSE (UL 94V-O)
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
3	No function	Common
10	-Vout	Common
11	+Vout	+Vout
12	-Vin (GND)	-Vin (GND)
13	-Vin (GND)	-Vin (GND)
14	+Vout	+Vout
15	-Vout	Common
22	No function	Common
23	No function	-Vout
24	+Vin (Vcc)	+Vin (Vcc)

() = inches

Pin ø 0.5 (0.02)

Specifications can be changed without notice