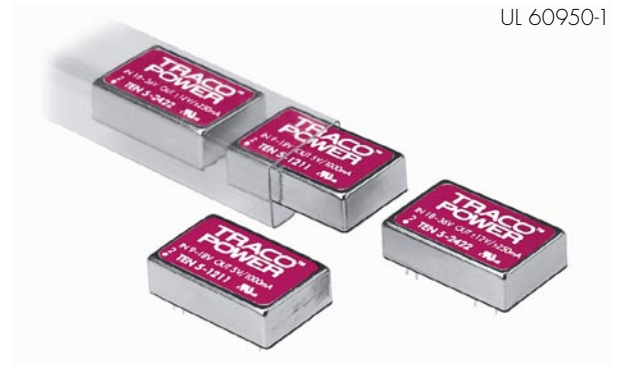


Features

- ◆ Wide 2:1 Input Range
- ◆ Full SMD-Design
- ◆ High Efficiency up to 86%
- ◆ Extended Operating Temperature
- ◆ Range -40°C to 85°C
- ◆ I/O-isolation 1'500 VDC
- ◆ Indefinite Short-Circuit Protection
- ◆ Input Filter meets EN 55022, Class A and FCC, Level A without external Components
- ◆ Shielded Metal Case with insulated Baseplate
- ◆ 24-pin DIP with Industry Standard Pinout
- ◆ High Reliability, MTBF >1 Mio. h
- ◆ 3 Year Product Warranty



UL 60950-1



The TEN 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 good cost /performance ratio. High efficiency allows an operating temperature range of -40°C to +85°C without derating. I/O-isolation of 1'500 VDC together with conducted noise compliance to EN 55022-A and FCC, level A makes these converters ideal for a wide range of applications in communications, mobile battery powered equipments and industrial systems.

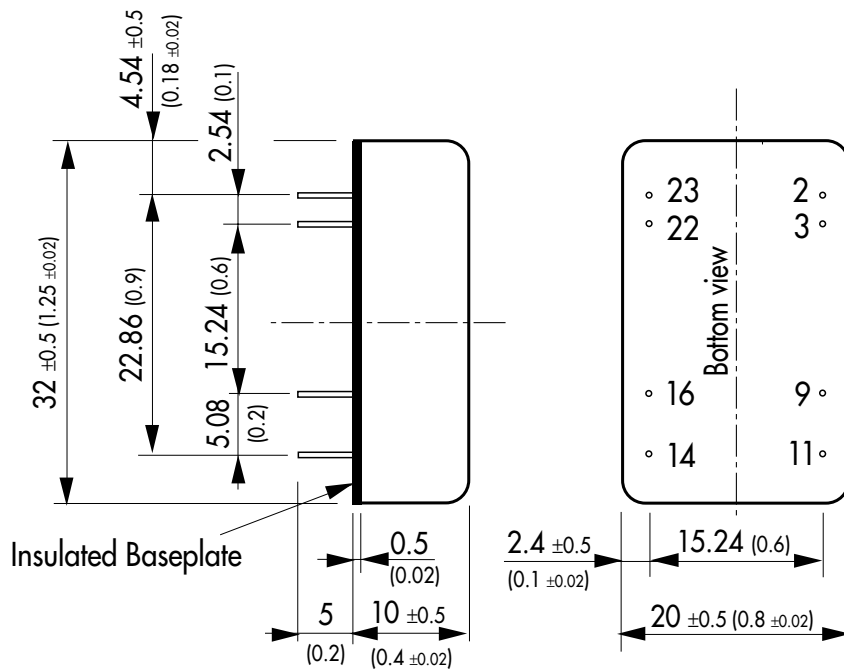
Models

Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TEN 5-0510	4.5 – 7 VDC	3.3 VDC	1200 mA	75 %
TEN 5-0511		5 VDC	1000 mA	79 %
TEN 5-0512		12 VDC	500 mA	82 %
TEN 5-0513		15 VDC	400 mA	82 %
TEN 5-0521		± 5 VDC	± 500 mA	79 %
TEN 5-0522		± 12 VDC	± 250 mA	82 %
TEN 5-0523		± 15 VDC	± 200 mA	82 %
TEN 5-1210	9 – 18 VDC	3.3 VDC	1200 mA	77 %
TEN 5-1211		5 VDC	1000 mA	81 %
TEN 5-1212		12 VDC	500 mA	84 %
TEN 5-1213		15 VDC	400 mA	84 %
TEN 5-1221		± 5 VDC	± 500 mA	81 %
TEN 5-1222		± 12 VDC	± 250 mA	84 %
TEN 5-1223		± 15 VDC	± 200 mA	84 %
TEN 5-2410	18 – 36 VDC	3.3 VDC	1200 mA	79 %
TEN 5-2411		5 VDC	1000 mA	83 %
TEN 5-2412		12 VDC	500 mA	86 %
TEN 5-2413		15 VDC	400 mA	86 %
TEN 5-2421		± 5 VDC	± 500 mA	83 %
TEN 5-2422		± 12 VDC	± 250 mA	86 %
TEN 5-2423		± 15 VDC	± 200 mA	86 %
TEN 5-4810	36 – 75 VDC	3.3 VDC	1200 mA	79 %
TEN 5-4811		5 VDC	1000 mA	83 %
TEN 5-4812		12 VDC	500 mA	86 %
TEN 5-4813		15 VDC	400 mA	86 %
TEN 5-4821		± 5 VDC	± 500 mA	83 %
TEN 5-4822		± 12 VDC	± 250 mA	86 %
TEN 5-4823		± 15 VDC	± 200 mA	86 %

Physical Specifications

Case material	steel, nickel plated
Baseplate material	non conductive FR4
Potting material	epoxy (UL 94V-0 rated)
Weight	14 g (0.55 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