

DC-DC Converters

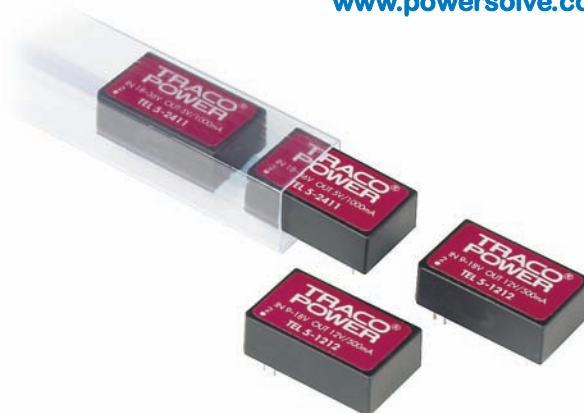
**POWER
SOLVE**

TEL5 Series, 5 Watt

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Features

- DIP -24 package
- Wide 2 : 1 input range
- High efficiency up to 86%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +85°C
- Short circuit protection
- Industry standard pin outs
- Cost optimized design



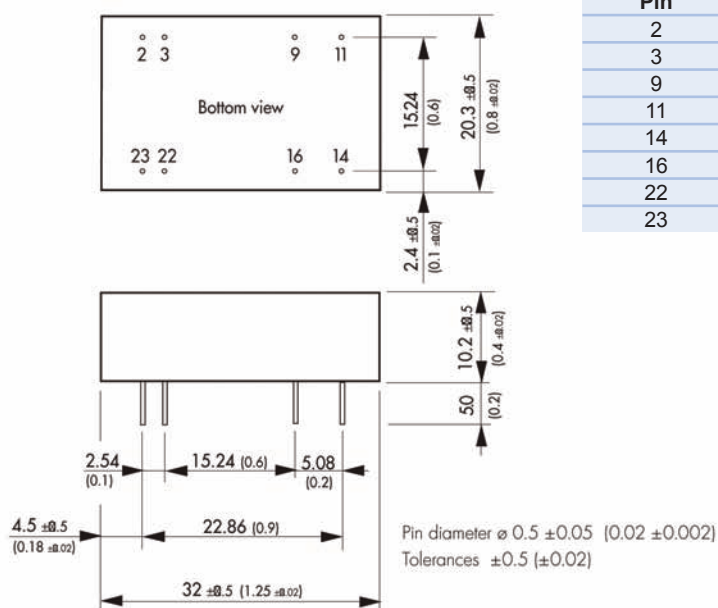
Electrical Specification

Input filter	Pi filter
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +85°C (derate at 3.3%/°C above 70°C)
I/O Isolation test voltage	1500VDC
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1, CB
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEL 5-1210	9 - 18V	3.3VDC	1200mA	75mV pk-pk max.	0.3%	1.0%	77%
TEL 5-1211		5VDC	1000mA	75mV pk-pk max.	0.3%	1.0%	81%
TEL 5-1212		12VDC	500mA	75mV pk-pk max.	0.3%	1.0%	84%
TEL 5-1222		±12VDC	±250mA	75mV pk-pk max.	0.3%	2.0%	84%
TEL 5-1223		±15VDC	±200mA	75mV pk-pk max.	0.3%	2.0%	84%
TEL 5-2410	18 - 36V	3.3VDC	1200mA	75mV pk-pk max.	0.3%	1.0%	79%
TEL 5-2411		5VDC	1000mA	75mV pk-pk max.	0.3%	1.0%	83%
TEL 5-2412		12VDC	500mA	75mV pk-pk max.	0.3%	1.0%	86%
TEL 5-2422		±12VDC	±250mA	75mV pk-pk max.	0.3%	2.0%	86%
TEL 5-2423		±15VDC	±200mA	75mV pk-pk max.	0.3%	2.0%	86%

Mechanical and Connection Details



Pin	Single Output	Dual Output
2	-Vin (GND)	-Vin (GND)
3	-Vin (GND)	-Vin (GND)
9	No Pin	Common
11	No Conn.	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin (Vcc)	+Vin (Vcc)
23	+Vin (Vcc)	+Vin (Vcc)