

DC-DC Converters

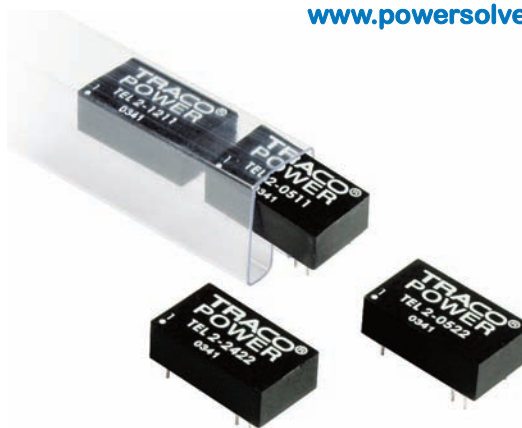
**POWER
SOLVE**

TEL2 Series, 2 Watt

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Features

- Ultracompact DIP-16 package
- Wide 2:1 input range
- I/O Isolation 1500VDC
- Operating temperature range -40°C to +75°C
- Low ripple and noise
- Short circuit protection
- Input filter to meet EN55022 Class A
- Cost Optimized Design



Electrical Specification

Conducted EMI	EN55022 Class A & FCC level A (internal filter)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C (derate at 2.8%/K above 65°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

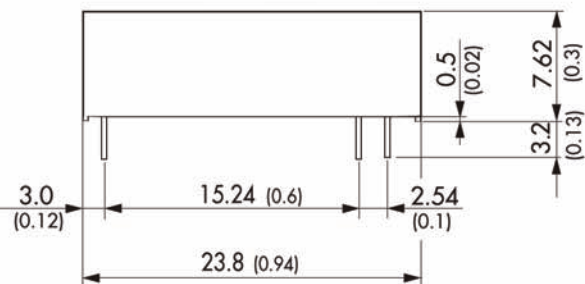
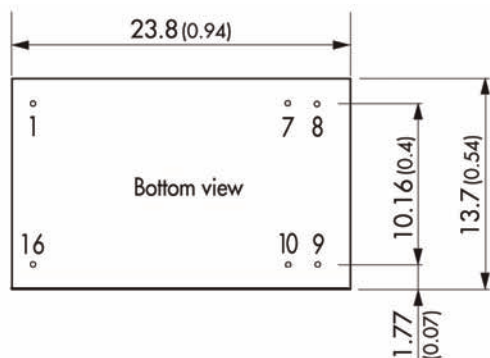
MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEL 2-0510	4.5 - 9.0V	3.3VDC	500mA	50mV pk-pk max.	0.5%	0.75%	70%
TEL 2-0511		5VDC	400mA	50mV pk-pk max.	0.5%	0.75%	73%
TEL 2-0512		12VDC	165mA	50mV pk-pk max.	0.5%	0.75%	75%
TEL 2-0513		15VDC	135mA	50mV pk-pk max.	0.5%	0.75%	73%
TEL 2-0521		±5VDC	±200mA	50mV pk-pk max.	0.5%	2.0%	64%
TEL 2-0522		±12VDC	±85mA	50mV pk-pk max.	0.5%	2.0%	69%
TEL 2-0523	9 - 18V	±15VDC	±65mA	50mV pk-pk max.	0.5%	2.0%	71%
TEL 2-1210		3.3VDC	500mA	50mV pk-pk max.	0.5%	0.75%	73%
TEL 2-1211		5VDC	400mA	50mV pk-pk max.	0.5%	0.75%	77%
TEL 2-1212		12VDC	165mA	50mV pk-pk max.	0.5%	0.75%	80%
TEL 2-1213		15VDC	135mA	50mV pk-pk max.	0.5%	0.75%	80%
TEL 2-1221		±5VDC	±200mA	50mV pk-pk max.	0.5%	2.0%	73%
TEL 2-1222	18 - 36V	±12VDC	±85mA	50mV pk-pk max.	0.5%	2.0%	78%
TEL 2-1223		±15VDC	±65mA	50mV pk-pk max.	0.5%	2.0%	78%
TEL 2-2410		3.3VDC	500mA	50mV pk-pk max.	0.5%	0.75%	72%
TEL 2-2411		5VDC	400mA	50mV pk-pk max.	0.5%	0.75%	77%
TEL 2-2412		12VDC	165mA	50mV pk-pk max.	0.5%	0.75%	80%
TEL 2-2413		15VDC	135mA	50mV pk-pk max.	0.5%	0.75%	81%
TEL 2-2421	36 - 75V	±5VDC	±200mA	50mV pk-pk max.	0.5%	2.0%	74%
TEL 2-2422		±12VDC	±85mA	50mV pk-pk max.	0.5%	2.0%	78%
TEL 2-2423		±15VDC	±65mA	50mV pk-pk max.	0.5%	2.0%	80%
TEL 2-4810		3.3VDC	500mA	50mV pk-pk max.	0.5%	0.75%	71%
TEL 2-4811		5VDC	400mA	50mV pk-pk max.	0.5%	0.75%	73%
TEL 2-4812		12VDC	165mA	50mV pk-pk max.	0.5%	0.75%	79%
TEL 2-4813		15VDC	135mA	50mV pk-pk max.	0.5%	0.75%	79%
TEL 2-4821		±5VDC	±200mA	50mV pk-pk max.	0.5%	2.0%	71%
TEL 2-4822		±12VDC	±85mA	50mV pk-pk max.	0.5%	2.0%	77%
TEL 2-4823		±15VDC	±65mA	50mV pk-pk max.	0.5%	2.0%	77%

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Mechanical and Connection Details



Pin	Single Output	Dual Output
1	-Vin (GND)	-Vin (GND)
7	No Conn.	No Conn.
8	No Conn.	Common
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin (Vcc)	+Vin (Vcc)