

DC-DC Converters

**POWER
SOLVE**

TEL3 Series, 3 Watt

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Features

- DIP -24 package
- Wide 2 : 1 input range
- Exclusive 10-30VDC input range models
- I/O isolation 1500VDC
- Operating temperature range -40°C to +85°C
- Short circuit protection
- Available with 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)
Option	metal casing

Output Voltage and Current Ratings

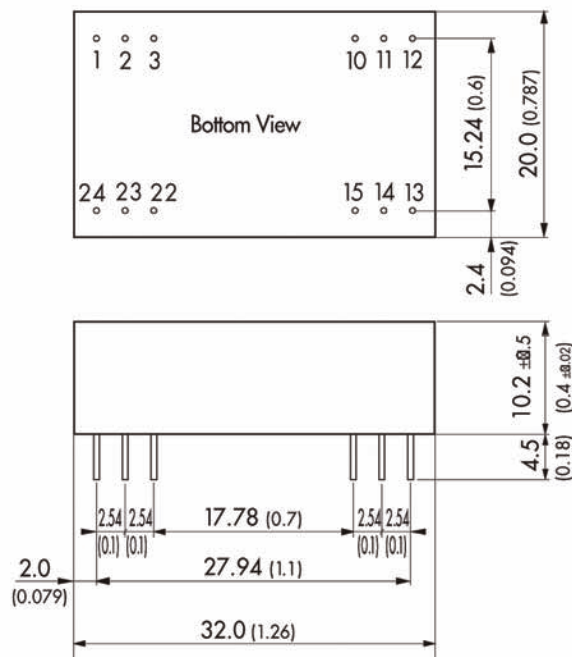
MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEL 3-0511	4.5 - 9.0V	5VDC	600mA	60mV pk-pk max.	0.5%	0.5%	70%
TEL 3-0512		12VDC	250mA	60mV pk-pk max.	0.5%	0.5%	74%
TEL 3-0513		15VDC	200mA	60mV pk-pk max.	0.5%	0.5%	74%
TEL 3-0522		±12VDC	±125mA	60mV pk-pk max.	0.5%	1.0%	74%
TEL 3-0523		±15VDC	±100mA	60mV pk-pk max.	0.5%	1.0%	74%
TEL 3-1211	9 - 18V	5VDC	600mA	60mV pk-pk max.	0.5%	0.5%	76%
TEL 3-1212		12VDC	250mA	60mV pk-pk max.	0.5%	0.5%	80%
TEL 3-1213		15VDC	200mA	60mV pk-pk max.	0.5%	0.5%	80%
TEL 3-1222		±12VDC	±125mA	60mV pk-pk max.	0.5%	1.0%	80%
TEL 3-1223		±15VDC	±100mA	60mV pk-pk max.	0.5%	1.0%	80%
TEL 3-2011	10 - 30V	5VDC	600mA	60mV pk-pk max.	0.5%	0.5%	76%
TEL 3-2012		12VDC	250mA	60mV pk-pk max.	0.5%	0.5%	80%
TEL 3-2013		15VDC	200mA	60mV pk-pk max.	0.5%	0.5%	80%
TEL 3-2022		±12VDC	±125mA	60mV pk-pk max.	0.5%	1.0%	80%
TEL 3-2023		±15VDC	±100mA	60mV pk-pk max.	0.5%	1.0%	80%
TEL 3-2411	18 - 36V	5VDC	600mA	60mV pk-pk max.	0.5%	0.5%	77%
TEL 3-2412		12VDC	250mA	60mV pk-pk max.	0.5%	0.5%	81%
TEL 3-2413		15VDC	200mA	60mV pk-pk max.	0.5%	0.5%	81%
TEL 3-2422		±12VDC	±125mA	60mV pk-pk max.	0.5%	1.0%	81%
TEL 3-2423		±15VDC	±100mA	60mV pk-pk max.	0.5%	1.0%	81%
TEL 3-4811	36 - 75V	5VDC	600mA	60mV pk-pk max.	0.5%	0.5%	77%
TEL 3-4812		12VDC	250mA	60mV pk-pk max.	0.5%	0.5%	81%
TEL 3-4813		15VDC	200mA	60mV pk-pk max.	0.5%	0.5%	81%
TEL 3-4822		±12VDC	±125mA	60mV pk-pk max.	0.5%	1.0%	81%
TEL 3-4823		±15VDC	±100mA	60mV pk-pk max.	0.5%	1.0%	81%

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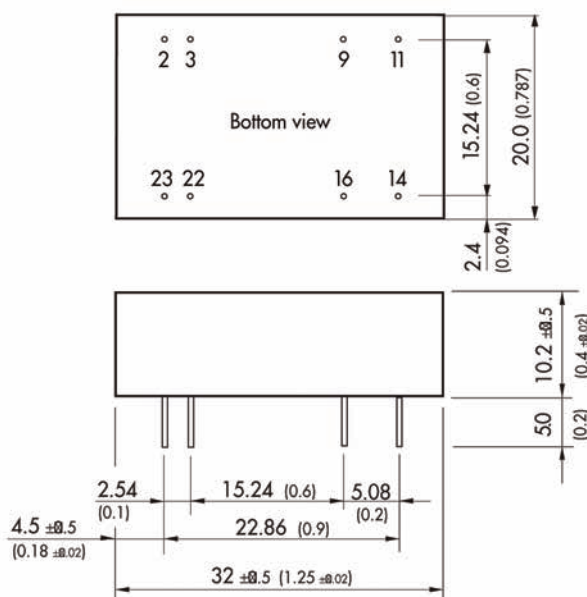


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Mechanical and Connection Details



Pin Out (standard version)		
Pin	Single Output	Dual Output
1	+Vin (Vcc)	+Vin (Vcc)
2	No Conn.	-Vout
3	No Conn.	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 Conn.	Common
23	No Conn.	-Vout
24	+Vin (Vcc)	+Vin (Vcc)



Pin Out (NP version)		
Pin	Single Output	Dual Output
1	+Vin (Vcc)	+Vin (Vcc)
2	No Conn.	-Vout
3	No Conn.	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 Conn.	Common
23	No Conn.	-Vout
24	+Vin (Vcc)	+Vin (Vcc)