

DC-DC Converters

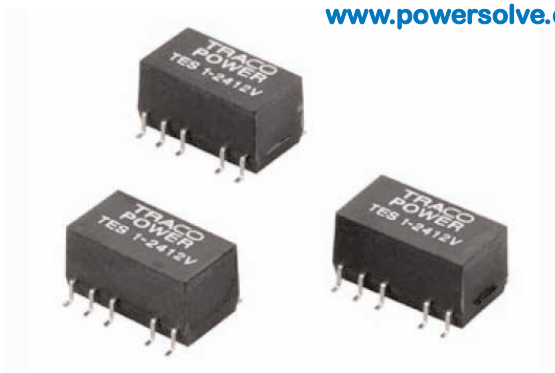
**POWER
SOLVE**

TES 1V Series, 1 Watt

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Features

- SMD package with industry standard footprint
- Single and dual output models
- Lead frame construction
- High accuracy of pin co-planarity
- Qualified for leadfree reflow solder process
- Available in tape and reel package



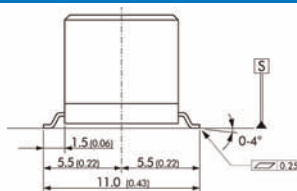
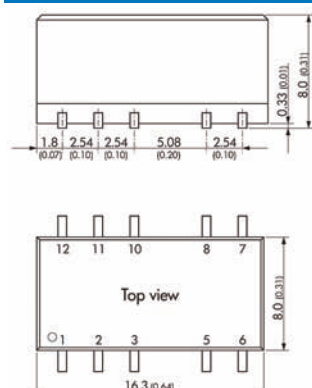
Electrical Specification

Line Regulation	non regulated
Load Regulation	+10% / -5% max.
Short Circuit Protection	limited 0.5 sec.
Operating Temperature Range	-40°C to +85°C (derate at 4.0%/°C above 75°C)
I/O Isolation test voltage	3000VDC
I/O Isolation capacitance	60pF typical
I/O Isolation resistance	>10G ohm
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	EFFICIENCY
TES 1-0510V	5VDC $\pm 10\%$	3.3VDC	260mA	100mV pk-pk max.	72%
TES 1-0511V		5VDC	200mA	100mV pk-pk max.	75%
TES 1-0512V		12VDC	84mA	100mV pk-pk max.	79%
TES 1-0513V		15VDC	67mA	100mV pk-pk max.	80%
TES 1-0521V		± 5 VDC	± 100 mA	100mV pk-pk max.	75%
TES 1-0522V		± 12 VDC	± 42 mA	100mV pk-pk max.	79%
TES 1-0523V	12VDC $\pm 10\%$	± 15 VDC	± 34 mA	100mV pk-pk max.	80%
TES 1-1210V		3.3VDC	260mA	100mV pk-pk max.	73%
TES 1-1211V		5VDC	200mA	100mV pk-pk max.	76%
TES 1-1212V		12VDC	84mA	100mV pk-pk max.	80%
TES 1-1213V		15VDC	67mA	100mV pk-pk max.	81%
TES 1-1221V		± 5 VDC	± 100 mA	100mV pk-pk max.	76%
TES 1-1222V	24VDC $\pm 10\%$	± 12 VDC	± 42 mA	100mV pk-pk max.	80%
TES 1-1223V		± 15 VDC	± 34 mA	100mV pk-pk max.	80%
TES 1-2410V		3.3VDC	260mA	100mV pk-pk max.	70%
TES 1-2411V		5VDC	200mA	100mV pk-pk max.	73%
TES 1-2412V		12VDC	84mA	100mV pk-pk max.	79%
TES 1-2413V		15VDC	67mA	100mV pk-pk max.	79%
TES 1-2421V		± 5 VDC	± 100 mA	100mV pk-pk max.	73%
TES 1-2422V		± 12 VDC	± 42 mA	100mV pk-pk max.	79%
TES 1-2423V		± 15 VDC	± 34 mA	100mV pk-pk max.	79%

Mechanical and Connection Details



Dimensions in [mm], () = Inch
Pin pitch tolerances: ± 0.13 (± 0.005)
Other tolerances: ± 0.25 (± 0.01)

Pin	Single Output	Dual Output
1	-Vin (GND)	-Vin (GND)
2	+Vin (Vcc)	+Vin (Vcc)
3	No conn.	No conn.
5	-Vout	Common
6	No conn.	-Vout
7	No conn.	No conn.
8	+Vout	+Vout
10	No conn.	No conn.
11	No conn.	No conn.
12	No conn.	No conn.