

DC-DC Converters

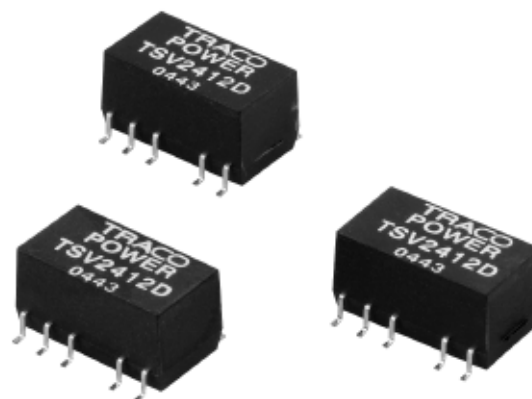
**POWER
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TSV Series, 1 Watt

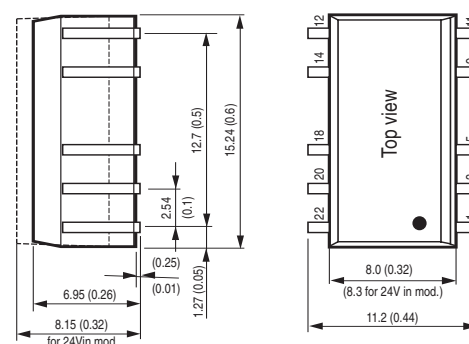
- SMD Package (SOIC-22)
- I/O Isolation 3000 VDC
- Single and Dual Output Models
- High Efficiency
- Operating Temperature Range -40°C to $+85^{\circ}\text{C}$
- Lead Frame Construction
- High Accuracy of Pin Co-Planarity
- Available in Tape and Reel Package
- Reflow solder temperature up to 250°C allowed

Line regulation	non regulated
Load regulation:	$\pm 10\%$ max.
Ripple & Noise:	$< 100\text{mVpk-pk}$ (20 MHz BW)
Short circuit protection:	limited 0.5 sec.
Efficiency:	80% typ.
Operating temperature range:	-40°C ... $+85^{\circ}\text{C}$ (no derating)
I/O isolation voltage:	3000 VDC
I/O isolation capacitance:	60 pF typ.
I/O isolation resistance:	$> 10\text{ Gohm}$
Case:	plastic (UL 94V-0 rating)



Models			
Order Code	Input voltage	Output voltage	Output current max.
TSV 0505S	5 VDC $\pm 10\%$	5 VDC	200 mA
TSV 0512S		12 VDC	80 mA
TSV 0515S		15 VDC	65 mA
TSV 0505D		± 5 VDC	± 100 mA
TSV 0512D		± 12 VDC	± 40 mA
TSV 0515D	12 VDC $\pm 10\%$	± 15 VDC	± 30 mA
TSV 1205S		5 VDC	200 mA
TSV 1212S		12 VDC	80 mA
TSV 1215S		15 VDC	65 mA
TSV 1205D		± 5 VDC	± 100 mA
TSV 1212D	24 VDC $\pm 10\%$	± 12 VDC	± 40 mA
TSV 1215D		± 15 VDC	± 30 mA
TSV 2405S		5 VDC	200 mA
TSV 2412S		12 VDC	80 mA
TSV 2415S		15 VDC	65 mA
TSV 2405D		± 5 VDC	± 100 mA
TSV 2412D		± 12 VDC	± 40 mA
TSV 2415D		± 15 VDC	± 30 mA

Pin-Out		
Pin	Single Output	Dual Output
1	$-V_{in}$ (GND)	$-V_{in}$ (GND)
3	$+V_{in}$	$+V_{in}$
5	No con.	No con.
9	$-V_{out}$	Common
11	No con.	$-V_{out}$
12	No con.	No con.
14	$+V_{out}$	$+V_{out}$
18	No con.	No con.
20	No con.	No con.
22	No con.	No con.



() = Inches