

DC-DC Converters

**POWER
SOLVE**

TES1 Series, 1 Watt

www.powersolve.co.uk

Features

- SMD package with industry standard footprint
- Single and dual output models
- 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.
Ripple & Noise	<120mV pk-pk (20MHz BW)
Short Circuit Protection	limited 0.5 sec.
Operating Temperature Range	-40°C to +85°C (no derating)
I/O Isolation test voltage	1500VDC
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY
TES1-0511	5VDC $\pm 10\%$	5VDC	200mA	78%
TES1-0512		12VDC	85mA	78%
TES1-0513		15VDC	65mA	79%
TES1-0521		± 5 VDC	± 100 mA	74%
TES1-0522		± 12 VDC	± 40 mA	78%
TES1-0523		± 15 VDC	± 35 mA	78%
TES1-1211	12VDC $\pm 10\%$	5VDC	200mA	76%
TES1-1212		12VDC	85mA	79%
TES1-1213		15VDC	65mA	80%
TES1-1221		± 5 VDC	± 100 mA	74%
TES1-1222		± 12 VDC	± 40 mA	78%
TES1-1223		± 15 VDC	± 35 mA	79%
TES1-2411	24VDC $\pm 10\%$	5VDC	200mA	78%
TES1-2412		12VDC	85mA	77%
TES1-2413		15VDC	65mA	79%
TES1-2421		± 5 VDC	± 100 mA	73%
TES1-2422		± 12 VDC	± 40 mA	78%
TES1-2423		± 15 VDC	± 35 mA	78%

Mechanical and Connection Details

Single Output Models		Dual Output Models			
Pin	Single Output	Pin	Dual Output		
1	-Vin (GND)	1	-Vin (GND)		
3	+Vin (Vcc)	3	+Vin (Vcc)		
7	-Vout	7	Common		
8	+Vout	8			
9		9	-Vout		
12		12	+Vout		
14	No conn.	14			
18		18	+Vout		