

DC-DC Converters

**POWER
SOLVE**

TES2H Series, 2 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

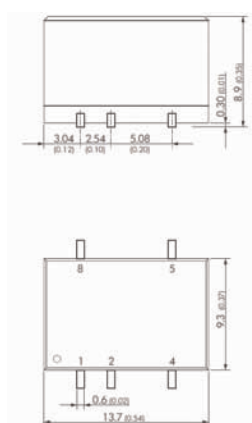
Line Regulation	non regulated
Load Regulation	+10% / -5% max.
Short Circuit Protection	limited 0.5 sec.
Operating Temperature Range	-40°C to +85°C (derate at 4.0%/°C above 75°C)
I/O Isolation test voltage	1500VDC
I/O Isolation capacitance	60pF typical
I/O Isolation resistance	>10G ohm
Casing	plastic (UL94V-0 rated)

Output Voltage and Current Ratings

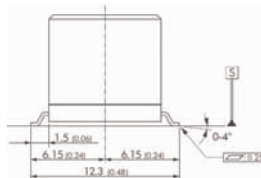
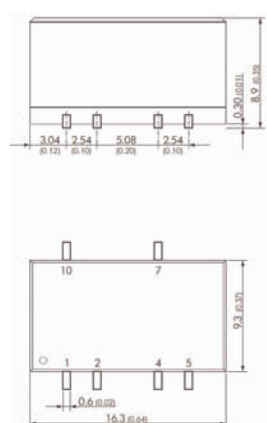
MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	EFFICIENCY
TES 2-0510H	5VDC $\pm$ 10%	3.3VDC	500mA	120mV pk-pk max.	70%
TES 2-0511H		5VDC	400mA	120mV pk-pk max.	73%
TES 2-0512H		12VDC	165mA	120mV pk-pk max.	77%
TES 2-0521H		$\pm$ 5VDC	$\pm$ 200mA	120mV pk-pk max.	74%
TES 2-0522H		$\pm$ 12VDC	$\pm$ 83mA	120mV pk-pk max.	76%
TES 2-0523H		$\pm$ 15VDC	$\pm$ 66mA	120mV pk-pk max.	76%
TES 2-1210H	12VDC $\pm$ 10%	3.3VDC	500mA	120mV pk-pk max.	72%
TES 2-1211H		5VDC	400mA	120mV pk-pk max.	75%
TES 2-1212H		12VDC	165mA	120mV pk-pk max.	79%
TES 2-1221H		$\pm$ 5VDC	$\pm$ 200mA	120mV pk-pk max.	78%
TES 2-1222H		$\pm$ 12VDC	$\pm$ 83mA	120mV pk-pk max.	80%
TES 2-1223H		$\pm$ 15VDC	$\pm$ 66mA	120mV pk-pk max.	80%
TES 2-2410H	24VDC $\pm$ 10%	3.3VDC	500mA	120mV pk-pk max.	72%
TES 2-2411H		5VDC	400mA	120mV pk-pk max.	75%
TES 2-2412H		12VDC	165mA	120mV pk-pk max.	79%
TES 2-2421H		$\pm$ 5VDC	$\pm$ 200mA	120mV pk-pk max.	77%
TES 2-2422H		$\pm$ 12VDC	$\pm$ 83mA	120mV pk-pk max.	79%
TES 2-2423H		$\pm$ 15VDC	$\pm$ 66mA	120mV pk-pk max.	79%

Mechanical and Connection Details

Single Output Models



Dual Output Models



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