

DC-DC Converters



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TES 3 Series, 3 Watt

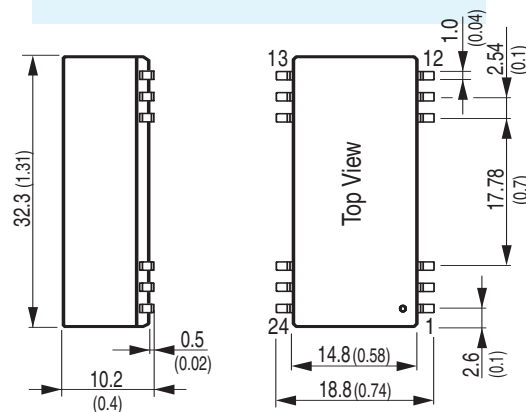
- SMD-Package
- Wide 2:1 Input Range
- I/O Isolation 1500 VDC
- Operating Temperature Range -40°C to $+71^{\circ}\text{C}$
- Short Circuit Protection
- Reflow solder temperature up to 250°C allowed

Line regulation:	$\pm 0.3\%$ max.
Load regulation:	– Single output models: $\pm 1.0\%$ max. – Dual output models: $\pm 1.0\%$ max.
Ripple & Noise:	< 50 mVpk-pk (20 MHz BW)
Input filter:	Pi-filter
Short circuit protection:	hiccup mode continuous no automatic recovery
Efficiency:	80% typ.
Operating temperature range:	-40°C ... $+71^{\circ}\text{C}$ (no derating)
I/O isolation voltage:	1500 VDC
Safety standards / approvals:	cUL/UL 60950, IEC/EN 60950-1
Case:	plastic (UL 94V-O rating)



Models			
Order Code	Input voltage	Output voltage	Output current max.
TES 3-1210	9 – 18 VDC	3.3 VDC	700 mA
TES 3-1211		5 VDC	600 mA
TES 3-1212		12 VDC	250 mA
TES 3-1222		± 12 VDC	± 125 mA
TES 3-1223		± 15 VDC	± 100 mA
TES 3-2410	18 – 36 VDC	3.3 VDC	700 mA
TES 3-2411		5 VDC	600 mA
TES 3-2412		12 VDC	250 mA
TES 3-2422		± 12 VDC	± 125 mA
TES 3-2423		± 15 VDC	± 100 mA
TES 3-4810	36 – 75 VDC	3.3 VDC	700 mA
TES 3-4811		5 VDC	600 mA
TES 3-4812		12 VDC	250 mA
TES 3-4822		± 12 VDC	± 125 mA
TES 3-4823		± 15 VDC	± 100 mA

Pin-Out		
Pin	Single Output	Dual Output
1	– Vin (GND)	– Vin (GND)
2	– Vin (GND)	– Vin (GND)
3	No con.	No con.
10	No con.	Common
11	No con.	No con.
12	No con.	– Vout
13	+ Vout	+ Vout
14	No con.	No con.
15	– Vout	Common
22	No con.	No con.
23	+ Vin (Vcc)	+ Vin (Vcc)
24	+ Vin (Vcc)	+ Vin (Vcc)



() = Inches

Pin $\varnothing$ 0.5 mm (0.02)