

DC/DC Converters

**POWER
SOLVE**

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TES 6 Series, 6/7,5 Watt

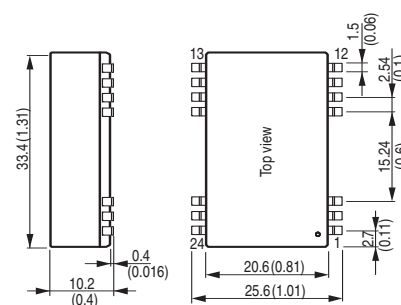
- = Compact SMD-Package
- = Wide 2:1 Input Range
- = High Efficiency up to 88%
- = Operating Temperature Range -40°C to $+71^{\circ}\text{C}$
- = I/O Isolation 1500 VDC
- = Short Circuit Protection
- = Input Filter to meet EN 55022, Class A



Line regulation	$\pm 0.3\%$ max.
Load regulation:	–Single output models: $\pm 1.0\%$ max. –Dual output models: $\pm 1.0\%$ max.
Ripple & Noise:	< 75 mVpk-pk (20 MHz BW)
Conducted EMI:	EN 55022, class A and FCC, level A (internal filter)
Short circuit protection:	continuous, automatic recovery
Efficiency:	86% typ.
Operating temperature range:	-40°C ... $+71^{\circ}\text{C}$ above 60°C derating 2%/°C
I/O isolation voltage:	1500 VDC
Safety standards:	cUL/UL 60950, IEC/EN 60950
Case:	plastic (UL 94V-0 rating)

Models			
Order Code	Input voltage	Output voltage	Output current max.
TES 6-1210	9 – 18 VDC	3.3 VDC	1200 mA
TES 6-1211		5 VDC	1200 mA
TES 6-1212		12 VDC	625 mA
TES 6-1213		15 VDC	500 mA
TES 6-1221		± 5 VDC	± 500 mA
TES 6-1222		± 12 VDC	± 310 mA
TES 6-1223		± 15 VDC	± 250 mA
TES 6-2410	18 – 36 VDC	3.3 VDC	1200 mA
TES 6-2411		5 VDC	1200 mA
TES 6-2412		12 VDC	625 mA
TES 6-2413		15 VDC	500 mA
TES 6-2421		± 5 VDC	± 500 mA
TES 6-2422		± 12 VDC	± 310 mA
TES 6-2423		± 15 VDC	± 250 mA
TES 6-4810	36 – 75 VDC	3.3 VDC	1200 mA
TES 6-4811		5 VDC	1200 mA
TES 6-4812		12 VDC	625 mA
TES 6-4813		15 VDC	500 mA
TES 6-4821		± 5 VDC	± 500 mA
TES 6-4822		± 12 VDC	± 310 mA
TES 6-4823		± 15 VDC	± 250 mA

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



() = Inches