

### Input Specifications

Input current no load	5 Vin models:	80 mA typ.
	12 Vin models:	40 mA typ.
	24 Vin models:	20 mA typ.
Surge voltage (1 sec. max.)	5 Vin models:	7.5 V max.
	12 Vin models:	15 V max.
	24 Vin models:	30 V max.
Input filter	Pi-Filter	

### Output Specifications

Voltage set accuracy	±3 %	
Regulation	– Input variation Vin min. to Vin max.	±0.3 % max.
	– Load variation 10 – 100 %	
	single output models:	±0.5 % max.
	dual output models balanced load:	±1.0 % max.
	dual output models unbalanced load:	±3.0 % max.
Ripple and noise (20 MHz Bandwidth)	50 mVpk-pk max	
Temperature coefficient	±0.02 %/K	
Current limitation	>120 % of Iout max., constant current	
Short circuit protection	indefinite	
Capacitive load	single output models:	470 µF max.
	dual output models:	220 µF max.

### General Specifications

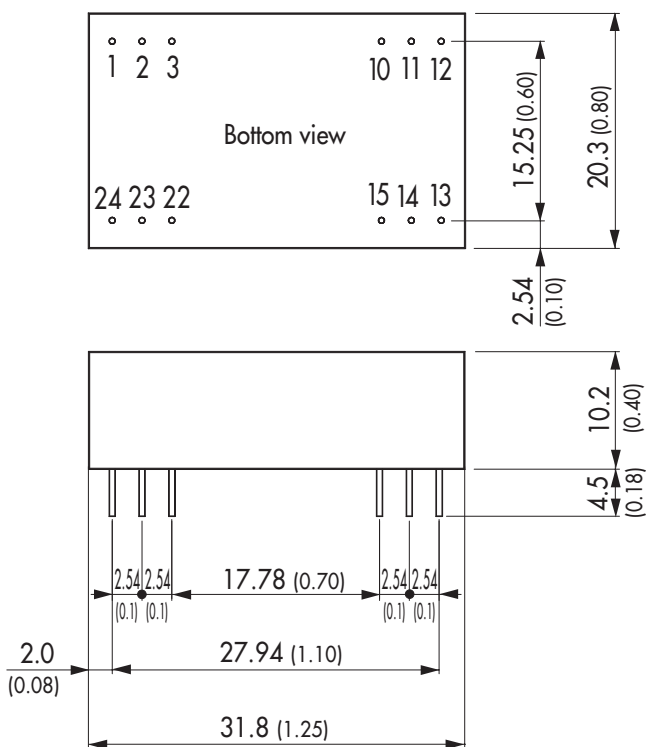
Temperature ranges	– Operating	–25°C to +70°C
	– Case temperature	5 VDC output models: –25°C to +60°C
	– Storage	+95°C max. –40°C to +125°C
Derating	3 %/K above +70°C	
Humidity (non condensing)	95 % rel H max.	
Reliability, calculated MTBF (MIL-HDBK-217F, at +25°C, ground benign)	>800'000 Mio. h	
Isolation voltage (60 sec.)	– Input/Output	1'000 VDC
Isolation capacitance	– Input/Output	100 pF typ.
Isolation resistance	– Input/Output (500 VDC)	>1'000 M Ohm
Switching frequency	80 kHz typ. (Pulse frequency modulation PFM)	
Safety standards	cUL/UL 60950-1, IEC/EN 60950-1	
Environmental compliance	– Reach	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a> directive 2011/65/EU
	– RoHS	

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

**Physical Specifications**

Casing material	non conductive plastic (UL94V-0 rated)
Weight	12 g (0.42 oz)
Soldering temperature	max. 260°C / 10 sec.

**Outline Dimensions mm (inches)**



Pin-Out		
Pin	Single	Dual
1	+Vin (Vcc)	+Vin (Vcc)
2	ntd.	-Vout
3	ntc.	Common
10	-Vout	Common
11	+Vout	+Vout
12	-Vin (GND)	-Vin (GND)
13	-Vin (GND)	-Vin (GND)
14	+Vout	+Vout
15	-Vout	Common
22	ntc.	Common
23	ntc.	-Vout
24	+Vin (Vcc)	+Vin (Vcc)

ntc. = not to connect

Pin diameter  $\varnothing 0.5 \pm 0.05$  (0.02)  $\pm 0.002$   
Tolerances  $\pm 0.5$  ( $\pm 0.02$ )

Specifications can be changed any time without notice.

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