

DC/DC Converters

TEM 2 Series, 2 Watt



The TEM 2 series is a family of isolated dc/dc converters in a DIP-24 package. They offer tight line/load regulation and 1000 VDC I/O isolation. Standard features include an internal filter to reduce reflected input ripple currrent and to guarantee low output noise. This product series provides a cost effective solution by many industrial or consumer electronics appliactions.

Models				
Ordercode	Input voltage range	Output voltage	Output current max.	Efficiency typ.
TEM 2-0511	5 VDC ±10%	5 VDC	400 mA	50 %
TEM 2-0512		12 VDC	165 mA	54 %
TEM 2-0521		±12 VDC	±80 mA	53 %
TEM 2-0522		±15 VDC	±65 mA	51 %
TEM 2-1211	12 VDC ±10%	5 VDC	400 mA	50 %
TEM 2-1212		12 VDC	165 mA	56 %
TEM 2-1221		±12 VDC	±80 mA	59 %
TEM 2-1222		±15 VDC	±65 mA	59 %
TEM 2-2411	24 VDC ±10%	5 VDC	400 mA	51 %
TEM 2-2412		12 VDC	165 mA	61 %
TEM 2-2421		±12 VDC	±80 mA	61 %
TEM 2-2422		±15 VDC	±65 mA	61 %

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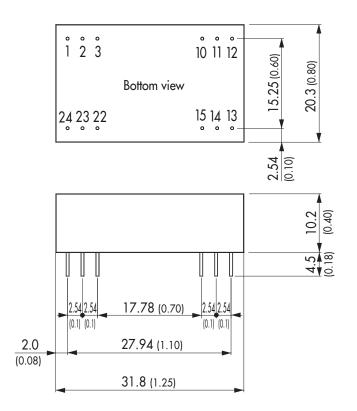
Input Specifications			
Input current no load		5 Vin models: 12 Vin models: 24 Vin models:	80 mA typ. 40 mA typ. 20 mA typ.
Surge voltage (1 sec. max.)		5 Vin models: 12 Vin models: 24 Vin models:	
Input filter			Pi-Filter
Output Specifications	S		
Voltage set accuracy			±3 %
Regulation	- Input variation Vin min. to - Load variation 10 - 100 %		±0.3 % max.
		single output models: put models balanced load: t models unbalanced load:	±0.5 % max. ±1.0 % max. ±3.0 % max.
Ripple and noise (20 MHz Bandwidth)			50 mVpk-pk max
Temperature coefficient			±0.02 %/K
Current limitation			>120 % of lout max., constant current
Short circuit protection			indefinite
Capacitive load		single output models: dual output models:	470 μF max. 220 μF max.
General Specification	ns		
Temperature ranges	– Operating – Case temperature – Storage	5 VDC output models:	-25°C to +70°C -25°C to +60°C +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, g	round 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 – RoHS		www.tracopower.com/info/reach-declaration.pdf directive 2011/65/EU

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 ø 0.5 ±0.05 (0.02) ±0.002 Tolerances ±0.5 (±0.02)

Specifications can be changed any time without notice.

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