mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

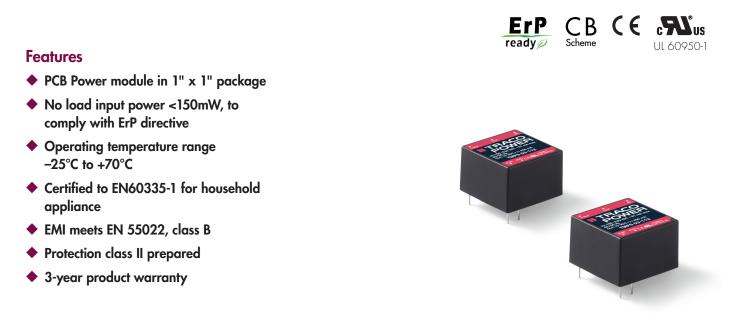
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



TRACO[®] POWER

AC/DC Power Modules

TMPS 03 Series, 3 Watt



The TMPS-03 series are ultra compact AC/DC power supplies in a fully encapsulated plastic casing for PCB mount. Their safety approvals and extended operating temp. range from -25° C to $+70^{\circ}$ C qualify them for worldwide markets. They are certified to EN 60335-1 for household appliance and offer an interesting solution for space critical applications in commercial, and industrial electronic equipment and if compliance to ErP directive is required.

Models							
Order code	Output power max.	Output Voltage	Output Current				
			max.	peak 1)	Efficiency		
TMPS 03-103		3.3 VDC	900 mA	1170 mA	70 %		
TMPS 03-105		5.0 VDC	600 mA	780 mA	72 %		
TMPS 03-109		9.0 VDC	333 mA	430 mA	77 %		
TMPS 03-112	3 W	12 VDC	250 mA	320 mA	78 %		
TMPS 03-115		15 VDC	200 mA	260 mA	78 %		
TMPS 03-124		24 VDC	125 mA	160 mA	78 %		

 $^{1)}$ < 30s with maximum duty cycle of 10%, average output power must not exceed 3W

TRACO[®] POWER

AC/DC Power Modules TMPS 03 Series 3 Watt

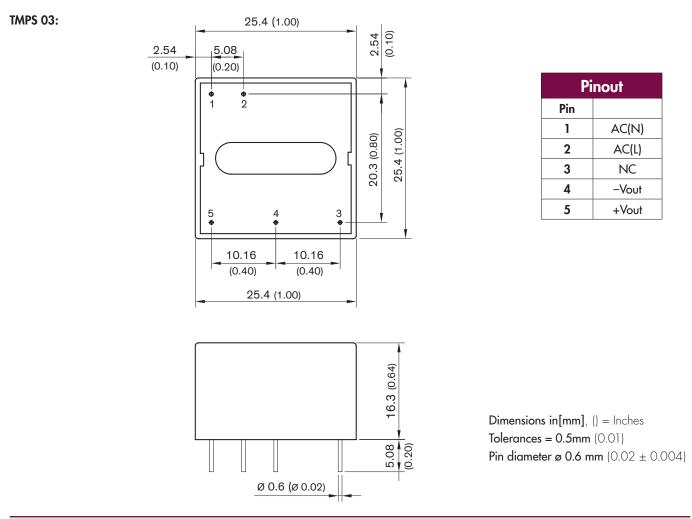
Input Specifications				
Input voltage ranges – AC input – DC Input		85 – 264 VAC 120 – 370 VDC		
Input frequency		47 - 63 Hz		
Input current at full load (115 VAC or 230)	VAC nominal input)	60 mA typ.		
Inrush current (115 VAC / 230 VAC nomin		15 A max. / 25 A max.		
No-Load power consumption		150 mW max.		
Output Specifications				
Voltage set accuracy		±2 % max.		
Minimum load		no minimum load required		
Ripple and noise (20 MHz bandwidth)		70 mVp-p max.		
Regulation – Input variation	1 % max.			
Regulation – Load variation		1 % max.		
Hold-up time		8 ms typ. (at 115 VACand full load)		
Current limitation (Operation under over-load conditions may	cause demage)	at 150 % typ. (auto recovery)		
Short circuit protection		hiccup, automatic recovery		
Max. capacitive load	3.3 VDC model: 5.0 VDC model: 9.0 VDC model: 12 VDC model: 15 VDC model: 24 VDC model:	820 μF 470 μF		
General Specifications				
	convection cooling) ting above +60°C n operating)	−25°C to +70°C 5.0 %/K −40°C to +85°C		
Temperature coefficient		0.05 %/°C		
Humidity (non condensing)		95 % rel max.		
Switching frequency (pulse width modulation	on PWM)	65 kHz typ.		
Isolation voltage - Input/Output	tu	4'242 VDC		
Isolation resistance (500 VDC)		>100 MOhm		
Reliability /calculated MTBF (MIL-HDBK-217	1.2 mio h			
Electromagnetic compatibility – Conducted (EMC), emissions – Radiated in	input RI suppression put suppression	EN 55022, class B, FCC part 15, level B EN 55014-1		
– RF field imm – Electrical fa – Surge – Conducted – Magnetic fi	discharge ESD nunity st transients/burst immunity RF	EN 55014-2, EN 61204-3, EN 55024 EN 61000-4-2, air 8 kV / 4 kV, criteria A EN 61000-4-3, 10 V/m, criteria A EN 61000-4-4, 2 kV, criteria A EN 61000-4-5, 1 kV, criteria A EN 61000-4-6, 10 Vrms, criteria A EN 61000-4-8, 30 A/m, criteria A EN 61000-4-11, >95 % 0.5 periods, criteria A 60 %, 10 periods, criteria A 30 %, 25 periods, criteria A		

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



General Specifications (continued)			
Protection class II	prepared according IEC/EN 60536 UL 60950-1 and CSA C22.2 No. 60950-1-07 IEC/EN 60950-1 EN 60335-1		
Safety standards			
- Certification documents	www.tracopower.com/overview/tmps03		
Environmental compliance – Reach – RoHS	www.tracopower.com/products/reach-declaration.pdf RoHS directive 2011/65/EU		
Physical Specifications			
Casing material	plastic resin + fiberglass (UL 94V-0 rated)		
Pin	copper alloy with gold plated nickel subplate		
Weight	17.4 g (0.61 oz)		

Outline Dimensions



Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com