

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

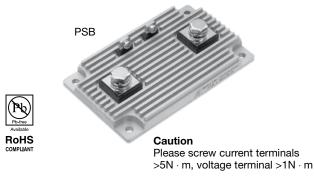


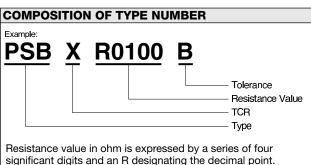


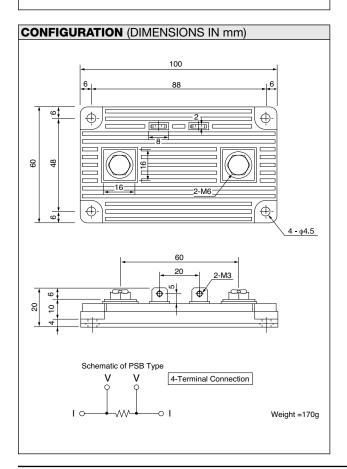




Ultra Precision Shunt Resistor (40 Watts)







FEATURES

- Excellent temperature characteristics created by Bulk Metal[®] foil technology
- Accurate value on four-terminal wiring, even in low extremity of resistance
- High heat dissipation due to aluminum-clad construction with fins
- Readiness to mount to heat sink or water-cooled radiator
 Availability of threaded holes to fix cables with screw

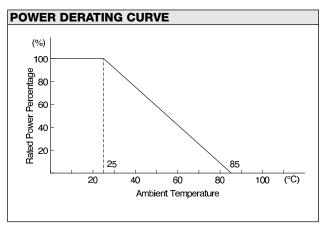
APPLICATIONS

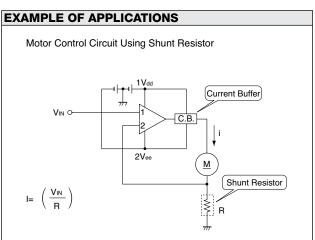
• Current-sensing in precise power supply, motor driver, etc.

TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER					
TCR (ppm/°C) 0°C to +60°C	Resistance Range (Ω)	Resistance Tolerance (%)	Rated Power (W) at 25°C		
0±15 (W)	0.001 to 0.005	±0.1 (B) ±0.5 (D) ±1 (F)	12 in free air and		
0±5 (X) 0±15 (W)	0.005 to 1		40 On heat sink*		

^{*}Thermal resistance of the heat sink 1°C/W.

Available to use higher rated power with elevation of cooling effect. Please keep temperature of element surface less than 60°C.





Document No.: 67010

Revision: 25-Apr-2016



PERFORMANCE					
Parameters	Test Condition	ALPHA Specification	ALPHA Typical Test Data		
Maximum Rated Operating Temperature Working Temperature Range Maximum Working Current		25°C -55°C to +85°C 100A			
Power Conditioning	25°C, Rated Power, 96 hrs.	±0.1%	±0.05%		
Low Temperature Storage and Operation	–55°C, No Load, 24 hrs.	±0.1%	±0.05%		
Dielectric Withstanding Voltage Insulation Resistance Low Temperature Operation Overload	Atmo. Pres.: AC 750V, 1 min. DC 500V, 2 min. –55°C, Rated Power Rated Power x 2.5, 5 sec.	±0.05% over 10,000 MΩ ±0.1% ±0.1%	±0.01% over 10,000 MΩ ±0.05% ±0.05%		
Moisture Resistance	+65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.1%	±0.05%		
Shock High Frequency Shock	30G, 11 ms., Half-Sine Wave, X, Y, Z, 10 shocks each 10 Hz to 50 Hz to 10 Hz, 1 min. X, Y, Z, 2.0 hrs. each	±0.05% ±0.05%	±0.1% ±0.1%		
Life	25°C, Rated Power, 1.5 hrs. – ON, 0.5 hrs. – OFF, 2,000 hrs.	±0.2%	±0.05%		
High Temperature Exposure	85°C, No Load, 2,000 hrs.	±0.2%	±0.05%		
Storage Life	15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs.	±0.05%	±0.01%		
Internal Thermal Resistance	Between resistive element and base plate	0.3°C/W			
Thermal Electromotive Force		1 μ\	//°C		

