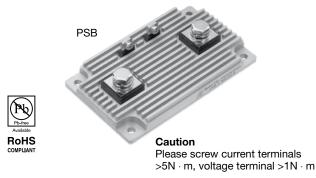
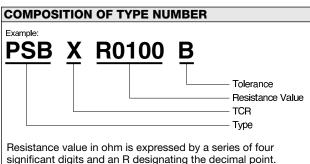
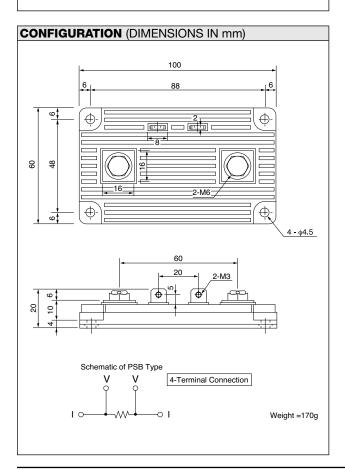


Ultra Precision Shunt Resistor (40 Watts)







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

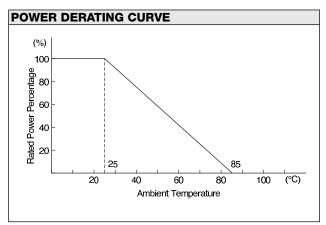
APPLICATIONS

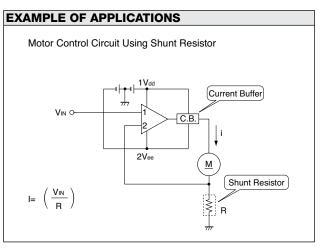
• Current-sensing in precise power supply, motor driver, etc.

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 40 On heat sink*		
0±5 (X) 0±15 (W)	0.005 to 1				

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

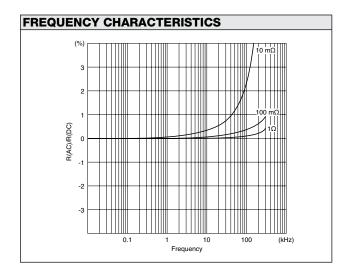
Available to use higher rated power with elevation of cooling effect. Please keep temperature of element surface less than 60°C.

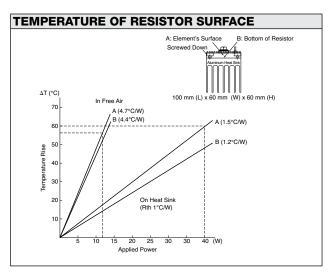






PERFORMANCE					
Parameters	Test Condition	ALPHA Specification	ALPHA Typical Test Data		
Maximum Rated Operating Temperature Working Temperature Range Maximum Working Current		25°C -55°C to +85°C 100A			
Power Conditioning	25°C, Rated Power, 96 hrs.	±0.1%	±0.05%		
Low Temperature Storage and Operation	–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		





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay Precision Group:

 RBDC1R000D
 RBDC1R000DL
 RBDC1R000G
 RBDC1R000GL
 RBDC1R000J
 RBDC1R000JL
 RBDCR5000D

 RBDCR5000DL
 RBDCR9000DL
 RBDJ1R000DL
 RBDCR1000D
 RBDCR1000F
 RBDCR1050F

 RBDCR1250F
 RBDCR1500J
 RBDCR2000DL
 RBDCR1500J
 RBDCR1500J
 RBDCR1500J