SHUNT
■ MAX. 500W
■ TOL. 0.1%
■ TC. 3ppm/°C

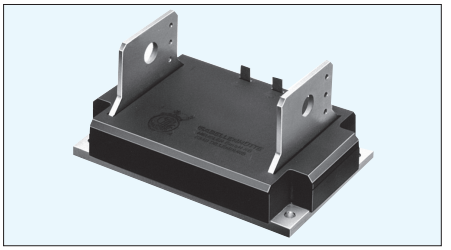
04.2008

PCN RESISTORS

RoHS Compliance

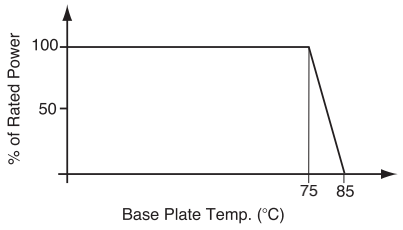
ISA-PLAN PRECISION POWER SHUNT RESISTOR R-Z

Load Capacity (permanent)	*1 500W (on heat sink)
Single Pulse Power load (R<10mΩ)	200J (tp<10ms)
Max.Current(Permanent)	700A (Pulse 1000A*2)
Standard Resistance	0.5m, 1m, 5m, 10m Ω
Tolerance	±0.1%, ±0.5%
Temp. Coefficient (20~60°C)	±3ppm/°C, ±5ppm/°C, ±10ppm/°C
Operating Temp.	0°C~+85°C
Thermal EMF (0~100°C)	−1μV/°C MAX
Thermal Resistance to Copper Base Plate	0.02°C/W
Dielectric Withstanding Voltage	AC500V
Insulation Resistance	10GΩ MIN
Load Life	±0.1% (2000Hr)
Inductance (R<10mΩ)	<3nH

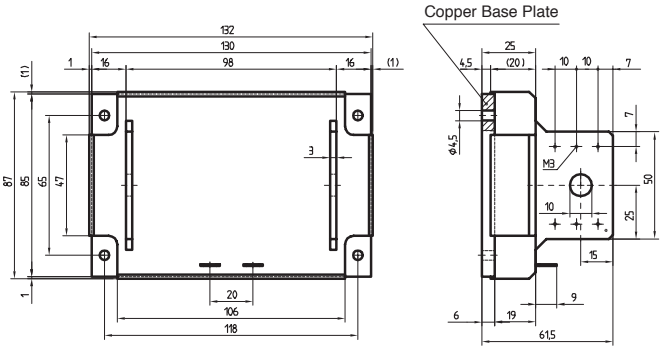


*1 Restriction on Temp. of Resistance Element : +125°C MAX ⚠ CAUTION
*2 Average power : < 500W

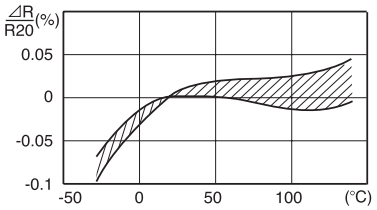
Ambient Temp. Derating Curve



Dimensions (mm)



Resistance change versus Temp.



How to order

R-Z (Type) 0.5mΩ (Resistance) ±0.1% (Tolerance) ±3ppm/°C (Temp.Coefficient)

PCN Corporation

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