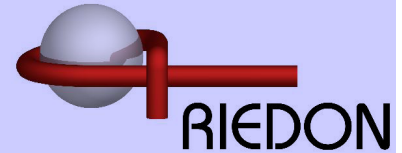


RSPCB Series

Precision PCB-Mounted Current Resistor/Shunts

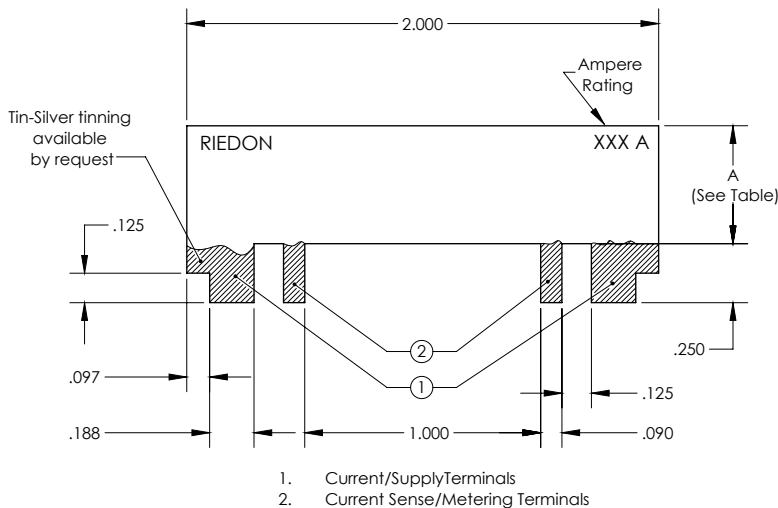
10 Amp to 150 Amp



- 50mV Standard Output - Custom Available
- $\pm 0.25\%$ Standard Tolerance ($\pm 0.1\%$ available)
- Non-Inductive Manganin Element
- Compact size
- TCR of $\pm 15\text{PPM}$
- Heat-treated for Stability



RSPCB	Amperes (50mV Output)											
	10	15	20	25	30	40	50	75	100	125	150	
Power (W)	0.5	0.75	1.0	1.25	1.5	2.0	2.5	3.8	5	6.3	7.5	
Resistance (mOhms)	5.0	3.333	2.5	2.0	1.667	1.25	1.0	0.6667	0.5	0.4	0.3333	
"A" Height in[mm] ± 0.03 [0.8]	0.13 [3.3]	0.20 [5.1]	0.26 [6.6]	0.34 [8.6]	0.24 [6.1]	0.32 [8.1]	0.42 [10.7]	0.58 [14.7]	0.44 [11.2]	0.66 [17.8]	0.80 [20.3]	
Thickness in[mm] ± 0.002 [0.05]	0.0253" [0.64]				0.040" [1.0]				0.079" [2.0]			



Rated Output	50mV Standard Custom Available
Voltage Tolerance	$\pm 0.25\%$ Standard ($\pm 0.1\%$ available)
Operating Temp.	-55°C to 125°C
Storage Temp.	-55°C to 125°C
Material	Cu86/Mn12/Ni2
Optional Contact Plating	T - 100% TIN PB - 60/40 Tin/Lead

Ordering Information

You may order by description (see above chart) or part number:

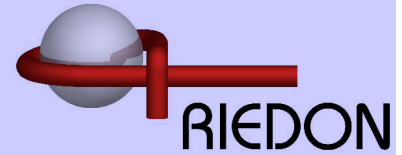
Example Part Number: **RSPCB-30-T**
PART TYPE - NOMINAL CURRENT - CONTACT PLATING (optional)

A Riedon Customer Service representative will confirm your description and provide a part number on a quote or sales order. You may use this part number for future orders.

RSPCB Series

Precision PCB-Mounted Current Resistor/Shunts

10 Amp to 150 Amp



TECHNICAL NOTES

Mounting: The manganin blade must never exceed +145°C (125°C recommended), otherwise permanent resistance change may occur. Shunts should be mounted in a manner that promotes free convectational air-flow or use forced air cooling.

If the shunt is mounted in an enclosure, care must be taken to ensure adequate cooling. If the power density is greater than 1/4 watt per square inch of the enclosure surface for all enclosed devices, additional cooling must be supplied in the form of air vents or fans.

Pulse Operation: Shunts that do not need continuous operation and are only exposed to intermittent pulses can be operated at levels above their rated current for short periods of times. Pulses are limited to the maximum temperature of the blades not exceeding 145°C (125°C recommended). Many variables such as ambient temperature, cross section of the current carrying conductors, and pulse duration make calculating exact values difficult. Shunt current will need to be validated by customer for pulse current and duty cycle on a case by case basis.

