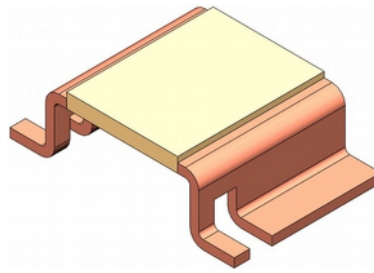


# Manganin Shunt Resistor for High Precision Current Measurement



## Description

The R500-BRI-04 shunt resistor is a precision Cu-Mn resistance with copper terminals.

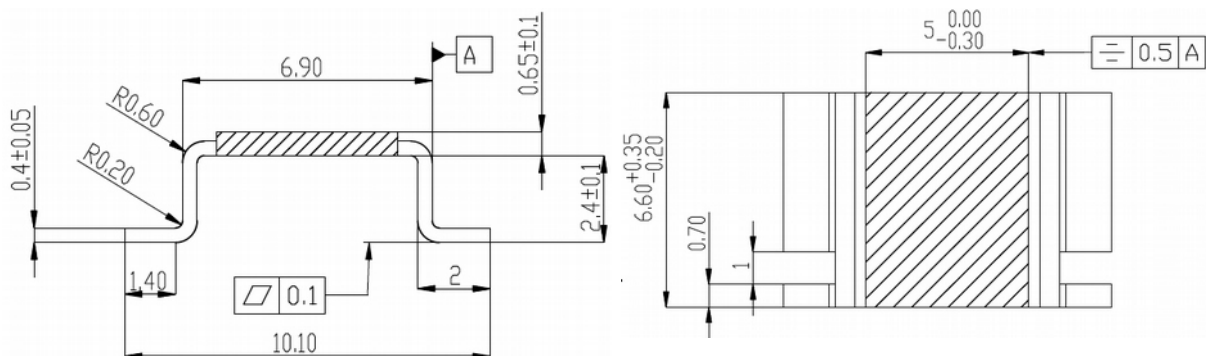
The shunt is designed for precision current measurement with high thermal stability in instruments, industrial, and automotive applications, typically including energy meters, ampere meters, power inverters, IGBT modules, and battery current monitoring. It is ideally suited in combination with Direct Bonded Copper (DBC) and Insulated Metal Substrates (IMS).

## Characteristics

Parameter	Typical Value	Unit
Resistance	500 (*)	$\mu\text{Ohm}$
Accuracy of absolute resistance	5	%
Resistivity temperature coefficient	$\pm 50$	ppm/K
Operation temperature range	-50 ... 150	$^{\circ}\text{C}$
Continuous power	5	W
Maximum power	12	W
Inductance	<3	nH

(\*) resistance values between 200 $\mu\text{Ohm}$  and 3mOhm on request

## Geometry



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