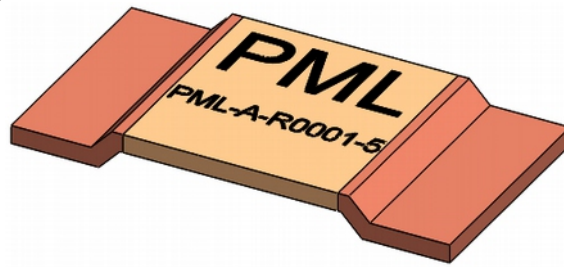


# Manganin Shunt Resistor for High Precision Current Measurement



## Description

The R1000-SMD-05 shunt resistor is a precision Cu-Mn resistance in the small size of a 3920 SMD component.

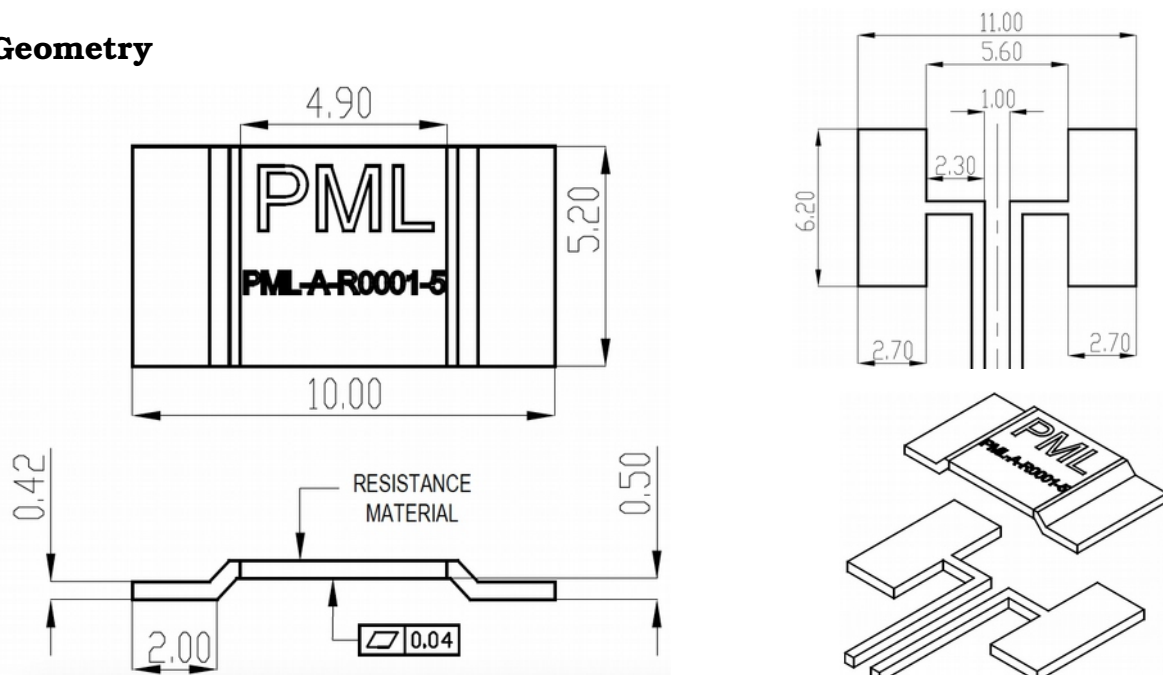
The shunt is designed for precision current measurement with high thermal stability in instruments, industrial, and automotive applications, typically including energy meters, ampere meters, power inverters, IGBT modules, and battery current monitoring. Thanks to its compact size it is ideally suited for high power applications on PCB substrates.

## Characteristics

Parameter	Typical Value	Unit
Resistance	1000 (*)	$\mu\text{Ohm}$
Accuracy of absolute resistance	5	%
Resistivity temperature coefficient	$\pm 50$	ppm/K
Operation temperature range	-50 ... 150	$^{\circ}\text{C}$
Continuous power rating	5	W
Inductance	<2	nH

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

## Geometry



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