



Model 9313A

High Precision
Low Resistance
Reference Shunt

5 Current Ranges
5m Ω to 1 Ω
Accuracy's to <0.02%
Improved TC
Rack or Bench top Use

General Description:

The Model 9313A Multiple Value DC Current Shunt is the latest development from Measurements International's series of DC resistors and shunts. After many years of research in low value resistance materials, the Model 9313A insures that you get the best performance on the market today. Combined with MI's experience in automated measurements at high current levels, accuracies approaching <0.02% can be achieved at full power from 5m Ω to 1 Ω .

The process selected in treating the element insures the best performance without introducing self-heating errors with improved temperature coefficients. The elements are supported on an insulating base for mechanical stability and enclosed in a vented fan cooled enclosure for proper cooling.

Special consideration has been given to the process of curing the elements and reducing the overall temperature coefficient. Optimum surface area dissipates the maximum specified power. The Model 9313A can be used as a current shunt or as a set of standard resistors for calibrating medium current, low resistance milli ohm meters. The Model 9313A is used in an air environment.

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Specifications:

Selected Resistance	Nominal %	Nominal Current (A)	Accuracy
1 Ω	0.1	10	$\pm 0.02\%$
500m Ω	0.1	14	$\pm 0.02\%$
200m Ω	0.1	22	$\pm 0.02\%$
20m Ω	0.1	70	$\pm 0.02\%$
5m Ω	0.1	141	$\pm 0.02\%$
Accuracy:	Calibrated at 23°C - Traceable to NRC and NIST		
Stability:	1 Year - 50 ppm		
Temp Coefficient:	< 3ppm/°C		
Power Coefficient:	< 4ppm/watt		
Operating	18 to 34°C, 10 to 80% RH		
Warranty	1 Year Parts & Labor		

Dimensions:

480 x 220 x 300 mm

Weight:

9 kg

Shipping Weight:

11.5 kg

Accessories:

Operating Power:

100, 120, 220, 240V AC @ 50 or 60 Hz
Power 15 VA

Distributed By:

How to Order:

Model 9313A
Multiple Value DC Current Shunt

Data Subject to Change

Printed in Canada



Measurements International

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