

CR

High accuracy, cost effective 4 terminal calibration resistor

This range of low cost 4 terminal calibration resistors combine high accuracy, class 0.02, long term stability and permanence of calibration in a compact unit. Constructed using carefully selected low temperature coefficient Manganin or Zeranin wire, depending upon value and mounted to ensure mechanical stability, these resistors will provide a cost effective addition to any laboratory or workshop. Typical applications include calibration reference, accurate current measurement, instrument calibration and accurate shunt resistors.

Dimensions

38 x 97 x 41mm / 1.5 x 3.8 x 1.6" (h x w x d)
(61mm/ 2.4" with terminals - approx)

Mass

250g / 9oz approx

Max Operating Voltage

70VDC, 33Vrms

Services

1 year warranty (subject to product registration with Seaward.

Service and calibration by Calibrationhouse.

Key Features

- Low capacitance and low inductance design
- High accuracy 0.02%
- Suitable for DC or AC current
- High stability $< \pm 0.01\%$ over many years

Ideal For

- Calibration houses
- Research and development departments



CR Specification

Model	Resistance Value	Tolerance \pm %	Resistivity material	Max. current in air	Nominal voltage at voltage taps	Storage stability type/year	Part Number
CR-0.0001	100 $\mu\Omega$	0.1	Manganin® sheet <10ppm / °C	60A	6mV	< 4 x 10 ⁻⁴	930353
CR-0.0002	200 $\mu\Omega$	0.05		60A	12mV	< 4 x 10 ⁻⁴	930336
CR-0.0005	500 $\mu\Omega$	0.05		60A	30mV	< 4 x 10 ⁻⁴	930422
CR-0.001	1m Ω	0.05		30A	30mV	< 5 x 10 ⁻⁵	930004
CR-0.002	2m Ω	0.05		30A	60mV	< 5 x 10 ⁻⁵	930337
CR-0.005	5m Ω	0.05		20A	100mV	< 5 x 10 ⁻⁵	930423
CR-0.01	10m Ω	0.03		14A	140mV	< 5 x 10 ⁻⁵	930005
CR-0.02	20m Ω	0.03		10A	200mV	< 5 x 10 ⁻⁵	930416
CR-0.05	50m Ω	0.03		6A	300mV	< 5 x 10 ⁻⁵	930424
CR-0.1	100m Ω	0.02		5A	500mV	< 3 x 10 ⁻⁵	930006
CR-0.2	200m Ω	0.02	Zeranin® wire <2ppm / °C130353	3A	600mV	< 2 x 10 ⁻⁵	930425
CR-0.5	500m Ω	0.02		2A	1V	< 2 x 10 ⁻⁵	930355
CR-1	1 Ω	0.02		1.5A	1.5V	< 1 x 10 ⁻⁵	930007
CR-2	2 Ω	0.02		1A	2V	< 2 x 10 ⁻⁵	930409
CR-5	5 Ω	0.02		0.7A	3.5V	< 2 x 10 ⁻⁵	930426
CR-10	10 Ω	0.02		0.5A	5V	< 1 x 10 ⁻⁵	930008
CR-20	20 Ω	0.02		0.35A	7V	< 2 x 10 ⁻⁵	930427
CR-50	50 Ω	0.02		0.2A	10V	< 2 x 10 ⁻⁵	930376
CR-100	100 Ω	0.02		0.15A	15V	< 1 x 10 ⁻⁵	930009
CR-200	200 Ω	0.02		0.1A	20V	< 2 x 10 ⁻⁵	930428
CR-500	500 Ω	0.02	70mA	35V	< 2 x 10 ⁻⁵	930429	
CR-1 k	1k Ω	0.02	45mA	45V	< 1 x 10 ⁻⁵	930010	
CR-2 k	2k Ω	0.02	20mA	40V	< 2 x 10 ⁻⁵	930430	
CR-5 k	5k Ω	0.02	14mA	70V	< 2 x 10 ⁻⁵	930431	
CR-10 k	10k Ω	0.02	10mA	100V	< 1 x 10 ⁻⁵	930432	
CR-20 k	20k Ω	0.02	7mA	140V	< 2 x 10 ⁻⁵	930433	
CR-50 k	50k Ω	0.02	4mA	200V	< 3 x 10 ⁻⁵	930434	
CR-100 k	100k Ω	0.02	3 mA	300V	< 3 x 10 ⁻⁵	930435	



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.