

CR

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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.



KEY FEATURE

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Low capacitance and low inductance design	■
High accuracy 0.02%	■
Suitable for direct current & technical frequencies	■
Oil-filled design ensures great long-term stability $\pm 0.01\%$ over many years	■

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Dimensions

38mm x 97mm x 41mm (61mm with terminals - approx)

Mass

250g approx

CR SPECIFICATIONS

Model	Resistance Value	Tolerance \pm %	Resistivity material	Max. current in air	Nominal voltage at voltage taps	Storage stability type/year
CR-0.0001	100 $\mu\Omega$	0.1	Manganin® metal sheet	60 A	6 mV	$< 4 \times 10^{-4}$
CR-0.0002	200 $\mu\Omega$	0.05		60 A	12 mV	$< 4 \times 10^{-4}$
CR-0.0005	500 $\mu\Omega$	0.05		60 A	30 mV	$< 4 \times 10^{-4}$
CR-0.001	1 m Ω	0.05	Manganin® metal sheet	30 A	30 mV	$< 5 \times 10^{-5}$
CR-0.002	2 m Ω	0.05		30 A	60 mV	$< 5 \times 10^{-5}$
CR-0.005	5 m Ω	0.05		20 A	100 mV	$< 5 \times 10^{-5}$
CR-0.01	10 m Ω	0.03		14 A	140 mV	$< 5 \times 10^{-5}$
CR-0.02	20 m Ω	0.03		10 A	200 mV	$< 5 \times 10^{-5}$
CR-0.05	50 m Ω	0.03		6 A	300 mV	$< 5 \times 10^{-5}$
CR-0.1	100 m Ω	0.02	Zeranin® - wire	5 A	500 mV	$< 3 \times 10^{-5}$
CR-0.2	200 m Ω	0.02		3 A	600 mV	$< 2 \times 10^{-5}$
CR-0.5	500 m Ω	0.02		2 A	1 V	$< 2 \times 10^{-5}$
CR-1	1 Ω	0.02		1.5 A	1.5 V	$< 1 \times 10^{-5}$
CR-2	2 Ω	0.02		1 A	2 V	$< 2 \times 10^{-5}$
CR-5	5 Ω	0.02		0.7 A	3.5 V	$< 2 \times 10^{-5}$
CR-10	10 Ω	0.02		0.5 A	5 V	$< 1 \times 10^{-5}$
CR-20	20 Ω	0.02		0.35 A	7 V	$< 2 \times 10^{-5}$
CR-50	50 Ω	0.02		0.2 A	10 V	$< 2 \times 10^{-5}$
CR-100	100 Ω	0.02		0.15 A	15 V	$< 1 \times 10^{-5}$
CR-200	200 Ω	0.02	0.1 A	20 V	$< 2 \times 10^{-5}$	
CR-500	500 Ω	0.02	70 mA	35 V	$< 2 \times 10^{-5}$	
CR-1 k	1 k Ω	0.02	45 mA	45 V	$< 1 \times 10^{-5}$	
CR-2 k	2 k Ω	0.02	20 mA	40 V	$< 2 \times 10^{-5}$	
CR-5 k	5 k Ω	0.02	14 mA	70 V	$< 2 \times 10^{-5}$	
CR-10 k	10 k Ω	0.02	10 mA	100 V	$< 1 \times 10^{-5}$	
CR-20 k	20 k Ω	0.02	7 mA	140 V	$< 2 \times 10^{-5}$	
CR-50 k	50 k Ω	0.02	4 mA	200 V	$< 3 \times 10^{-5}$	
CR-100 k	100 k Ω	0.02	3 mA	300 V	$< 3 \times 10^{-5}$	