DC Current Shunts

DCCS Series

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The DCCS Series Current Shunts are calibration grade devices used for precise dc current measurements. They extend high accuracy measurements beyond the available limits of self-contained dc ammeters and the DCCS Current Shunts can be used as standard reference resistors.

The DCCS Current Shunts are low cost 4-terminal calibration resistors that 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 on the value, and mounted to ensure mechanical stability, these current shunts will provide a cost-effective addition to any laboratory or workshop.

Features:

- For tests of measuring bridges or electrical temperature measuring equipment
- For a laboratory setup of a Wheatstone bridge
- As shunt resistor for current measurement
- As part of standard equipment in research laboratories



DCCS Series dc Current Shunts

SPECIFICATIONS

Model	Nominal Value (Ω)	Adjustment to Nominal Value	RL	Maximum Current (A) Air	Temperature Coefficient approximate (ppm/°C)	Stability typical (ppm/yr)	Resistivity Ma- terial
DCCS-0.0001	0.0001	± 0.1%	≤0.9 mΩ	60	10	400	MANGANIN® sheet
DCCS-0.001	0.001	± 0.05%	≤3 mΩ	30	10	50	
DCCS-0.01	0.01	± 0.03%	≤3 mΩ	14	10	50	
DCCS-0.1	0.1	± 0.02%	≤5 mΩ	5	10	30	
DCCS-1	1	± 0.02%	≤5 mΩ	1.5	2	10	ZERANIN® wire
DCCS-10	10	± 0.02%		0.5	2	10	
DCCS-100	100	± 0.02%		0.15	2	10	
DCCS-1 k	1 k	± 0.02%		0.045	2	10	

Calibration temperature: 23 °C \pm 3 C (< 0.5 W load) Surface temperature: max. 85 °C Thermal resistance: 11 K/W Nominal insulation voltage: 650 V DC (insulated mounting required) Insulation resistance: > 100 MΩ Specifications: according to IEC 60477 Dimensions: 38 x 97 x 41 mm (61 mm with terminals) 1.5 x 3.8 x 1.6 in (2.3 in with terminals)

Weight: 250 g (0.55 lbs)

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