MODELS CS-100 TO CS-300 PRECISION SHUNTS

- *EXCELLENT STABILITY*

- *ACCURACY TO <0.01 %*

- *IMMUNE FROM CONNECTION ERRORS*

- *LOW TEMPERATURE & POWER COEFFICIENTS*

- *DC AND AC USE*

Ohm-Labs CS-series precision shunts are designed for accurate measurement of current.

These shunts feature good long term stability and low temperature coefficients of resistance. Although designed for laboratory use, they are rugged enough to be installed in environments subject to wide variations in temperature and to vibration or shock.

The CS shunts are of bifilar construction, with low reactance. They may be used with no measurable loss of accuracy at 50/60 Hz, and with <0.1 % ac/dc conformance up to 1 kHz.

The temperature coefficient of resistance is less than 5 ppm/°C (CS-100 & CS-200); the CS-300 is less than 20 ppm/°C. Connection errors, significant in many other shunts, are minimized by the internal bus structure.

Every shunt includes ISO 17025 accredited, traceable calibration through full rated current.

Standard models are listed; other amp/volt combinations are available on request.

For the highest precision applications, a 100 ohm RTD temperature option, with full temperature characterization, is available.

Ohm-Labs also manufactures low resistance standards and a temperature stabilized Multiple Current Shunt, model MCS, for <0.1 amp through 300 amp measurements.

Specifications

Model	Amps	Ohms	Output	Accuracy
CS-100	100	1 mΩ	0.1 V	0.01 %
CS-200	200	1 mΩ	0.2 V	0.02 %
CS-300	300	0.1 mΩ	30 mV	0.025 %

For special values, use the below example:

CS-100-1	100		1 V	0.03 %

Physical: 25x30.5x7.5 cm, 5 kg (10x12x3 in, 11 lbs)

Connections:
Potential: 5-way gold plated binding posts
Current:
  CS-100 & CS-200: 3/8-16 threaded posts
  CS-300 ½-13 threaded posts

Stated accuracy includes 0-100 % current, 18-30 °C operation, plus 12 months typical stability.

All shunts carry a 2 year warrantee.

ISO17025 accredited calibration included.

-LABS
Excellence in Resistance