

## 20 A AC SHUNT SET

- *IMPROVED ACCURACY TO 20 A / 100 KHZ*
- *COAXIAL CONSTRUCTION*
- *INCLUDES ACCREDITED CALIBRATION*



CSA-SERIES COAXIAL AC SHUNTS

Ohm-Labs' CSA-20-Set is a set of coaxial AC shunts with improved accuracy specifications.

These CSA shunts all have 1 volt output at rated current. The set gives overlapping ranges in steps of 1-2-5.

Up to 2 A, specially constructed metal foil elements provide low inductance and flat frequency response.

Above 2 A, unlike 'cage' construction shunts, Ohm-Labs uses a true coaxial concentric cylinder foil design.

Careful heat treatment and processing of the foil resistance alloy produces a low temperature coefficient and minimal change with applied power.

Because of the variability of heat treatment and physical connection in the construction of ac shunts using sheets of resistance alloy, the dc resistance may vary from nominal. The DC resistance of these models will be change <0.05 % from 10-100 % current. As with any precision shunt, the user is recommended to use the calibrated values.

All models have type N male connectors for potential. Current connections are type N female.

All shunts include ISO 17025 Accredited Calibration at 50 & 100 % dc current, and ac-dc difference up to 100 kHz.

The CSA-20-Set is packaged in a custom fitted transit case. It includes type N current and potential cables.

Lower and higher current models are available, up to 100 A. Coaxial Tee series connectors and adapters are available for inter-comparison.

Non-standard values are available by special order. All Ohm-Labs shunts are warranted for two years.

Specifications, 18-30 °C				
Model	Nominal $\Omega$	DC	1 kHz	100 kHz
CSA-10m	100 $\Omega$	<0.01 %	<20 $\mu$ A/A	<50 $\mu$ A/A
CSA-20m	50	<0.01	<15	<40
CSA-50m	20	<0.01	<15	<20
CSA-0.1	10	<0.01	<15	<20
CSA-0.2	5	<0.01	<15	<20
CSA-0.5	2	<0.01	<15	<20
CSA-1	1	<0.01	<15	<20
CSA-2	0.5	<0.01	<15	<20
CSA-5	0.2	<0.01	<25	<30
CSA-10	0.1	<0.02	<30	<80
CSA-20	0.05	<0.03	<35	<100
Cables: 30 & 60 cm type N to banana potential, 30 & 60 cm type N to type N current				
Physical: 74x43x23 cm (29x17x9 in), 13 kg (28 lbs) Environmental: Use: 18-30 °C, 15-70 %RH Storage: 5-60 °C, 5-95 %RH				



ISO 17025 accredited calibration included.

