



CSP 9160A CURRENT SENSOR PROBE 9 kHz to 200 MHz



CSP 9160A

The CSP 9160A is a broadband RF current sensor probe as defined in CISPR 16-1-2. Beside the compliance measurements of asymmetrical disturbance currents as e.g. required in CISPR 16-2-1 and CISPR 22, the probe can be used in a number of diagnostic applications to measure superimposed RF currents flowing in conductors, or cable harnesses.

A convenient feature of the CSP 9160A is that, from 100 kHz to 120 MHz, it has a flat frequency response with a 0 dB transducer factor, allowing voltage measurements to be read as current, directly without any correction. The probe can be easily and quickly clipped around the cable under test and the RF currents measured using an oscilloscope, spectrum analyzer, or EMI receiver. Its large aperture (25.4 mm) can accommodate most cables and can handle power lines with currents up to 50 amps.

The CSP 9160A is can also be used as current monitor for BCI testing as per MIL-STD-461 and various automotive standards.

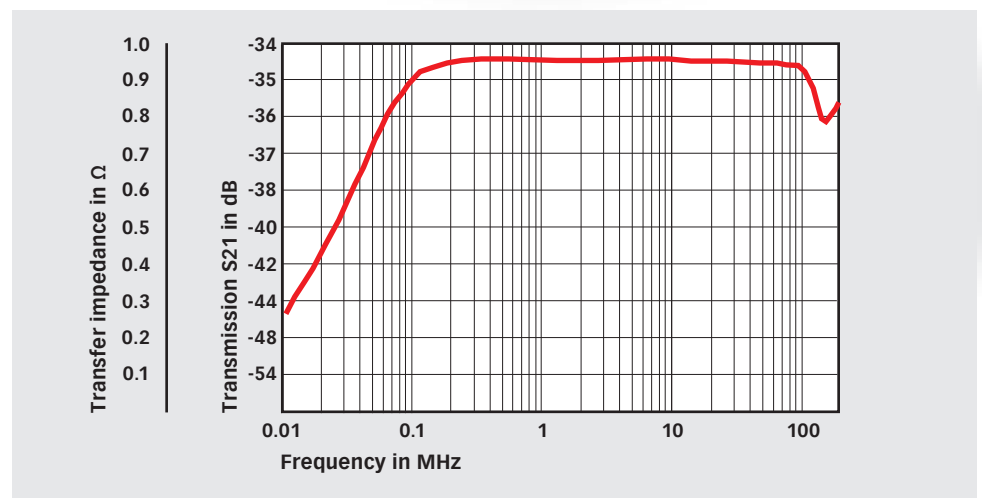
- As defined in CISPR 16-1-2
- Suitable for emission measurements per CISPR 16-2-1, CISPR 22 and CISPR 32
- Suitable for BCI testing per MIL-STD-461 and various automotive standards
- Flat frequency response
- Ruggedly designed

Technical specifications

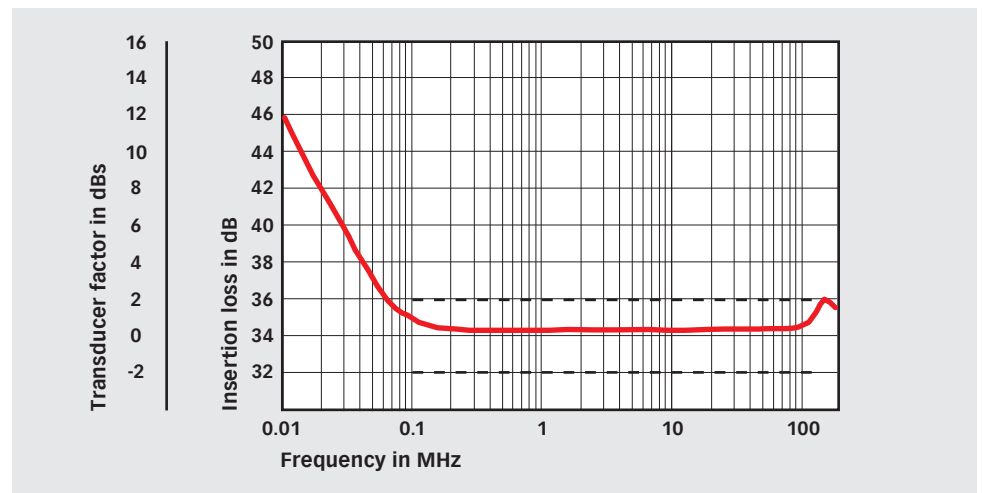
Frequency range:	9 kHz to 200 MHz
Insertion loss:	34 dB \pm 2 dB (50 Ω system, 100 kHz to 120 MHz) typical \pm 1 dB, see also the graphs
Transfer impedance, transducer factor:	as given in the graphs
Insertion impedance:	<1 Ω
Signal output:	BNC socket
Max. signal current:	1 A
Max DC current or peak AC current (up to 60 Hz):	50 A
Classification:	Indoor use only
Operating temperature:	0°C to +40°C
Storage and transport temperature:	-10°C to +60°C
Relative humidity:	up to 90% (no moisture condensation)
Window diameter (aperture):	25.4 mm
Dimensions (L x H x W) in mm:	105 x 80 x 38
Weight:	approx. 525 g
Dimensions of the storage case in mm:	260 x 70 x 210
Weight:	approx. 350 g

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Typical transfer impedance and transmission S21



Typical transducer factor and insertion loss, --- limit

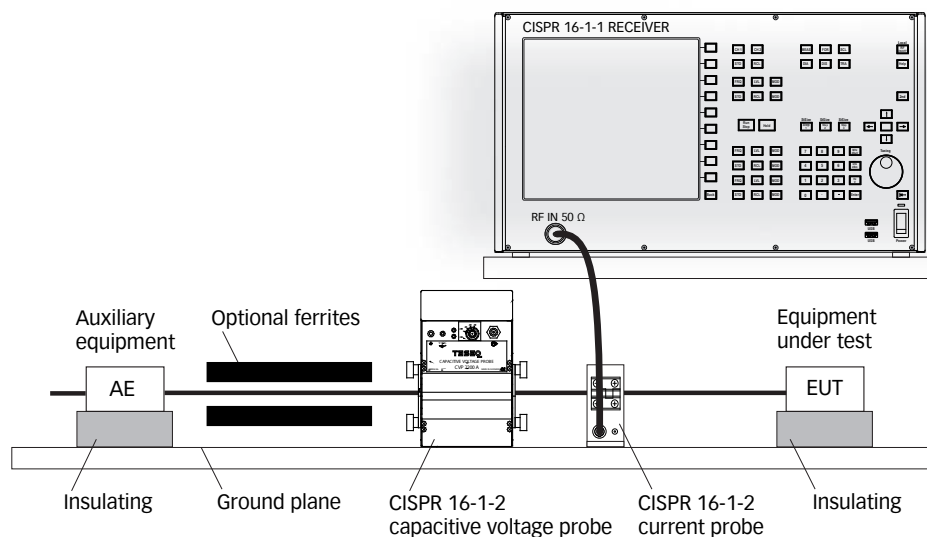


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CSP 9160A in storage case

Test set-up example according CISPR 22 and CISPR 32 with capacitive voltage probe and current probe



Delivery information

Part number	Description
347-050	CSP 9160A Current sensor probe, 9 kHz to 200 MHz, CISPR 16-1-2, in storage case
97-347-050	CSP 9160A-TC Traceable calibration (ISO17025), order only with device CSP 9160A
252075	PCJ 9160 Calibration jig for CSP 9160
348-345	CHA 9545 RF cable, BNC(m)-BNC(m), 3 m, RG223