

Wideband Current Monitor Probe **CM 035300K**



- IEC 61000-4-5
- RTCA DO-160
- GB/T 17626.5

Features

- > Undistorted waveform, galvanic isolation from current carrying conductors
- > Supports AC signal current (with the frequency of 10 Hz ~ 300 kHz) measurements
- > Designed for measuring time-domain pulse current with the rise time >1.2 μ s

Introduction

The CM 035300K Wideband Current Monitor Probe complies with IEC 61000-4-5, RTCA DO-160G and GB/T 17626.5-2019 and is designed to measure AC currents from 10 Hz to 300 kHz and time-domain pulse currents. It transfers AC or pulse signal currents to recording equipment as voltage signals via electromagnetic coupling.

Featuring undistorted waveforms and physical isolation from current carrying conductors, it meets the measurement requirements of time-harmonic signals up to 300 kHz and transient pulse signals with rise times greater than 1.2 μ s. It is widely used in conducted EMC susceptibility (immunity) testing.

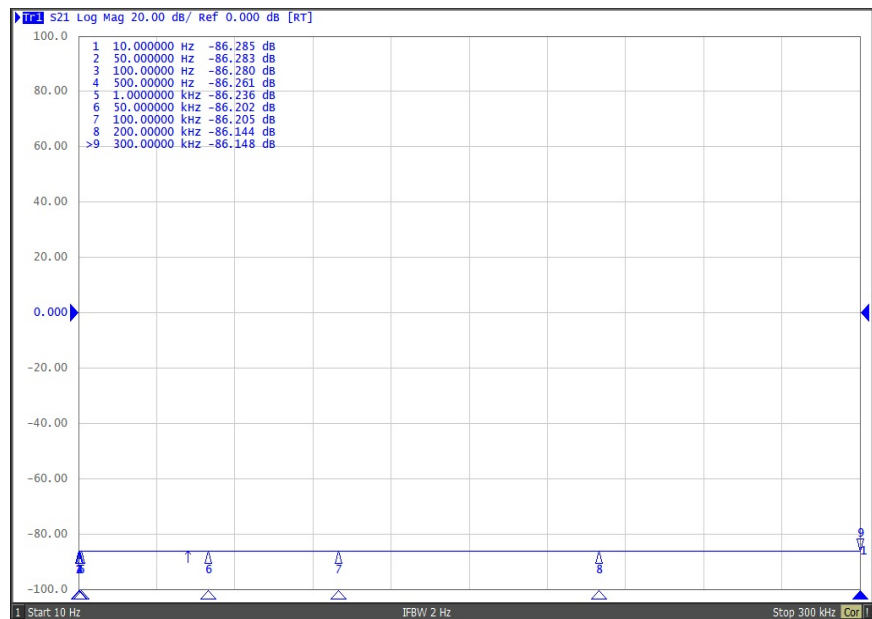
Application Areas



Technical Parameters

Sensitivity/ Transfer Impedance	0.005 V/A 0.0025 V/A @ 50 Ω load
Output Impedance	50 Ω
Max. Peak Current	20,000 A
Max. Continuous Current (RMS)	450 A
Lower Frequency Limit (-3 dB)	10 Hz
Upper Frequency Limit (-3 dB)	300 kHz
Rise Time	1.2 μ s
Ampere-second Product	5 A·s
Inner Diameter	40 mm
Outer Diameter	127 mm
Thickness	40 mm
Interface Type	Type BNC
Operation Temperature	0°C ~ 65°C
Weight	Approx. 2 kg

S21 Curve



Note: Transfer impedance (dB Ω)=S21+34 dB @50 Ω load;

Transfer impedance (dB Ω)=S21+34 dB+6 dB @1 M Ω load

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