



Broadband Current Monitor Clamp

CM 0050M

— Features —

- > Undistorted waveform, physical isolation from current-carrying conductors
- > Supports AC and time-domain pulse current measurement from 1 kHz to 50 MHz
- > Supports harmonic signal measurement up to 50 MHz

— Introduction —

The CM 0050M Broadband Current Monitor is designed for measuring alternating currents from 1 kHz to 50 MHz and time-domain pulse currents. It transmits sinusoidal or pulsed signal currents to recording equipment in the form of voltage via electromagnetic coupling, featuring undistorted waveforms and physical isolation from current-carrying conductors. It meets measurement requirements for sinusoidal signals up to 50 MHz and transient pulse signals with rise times greater than 7 ns as specified in various standards, and is widely used in EMC conducted susceptibility (immunity) tests.

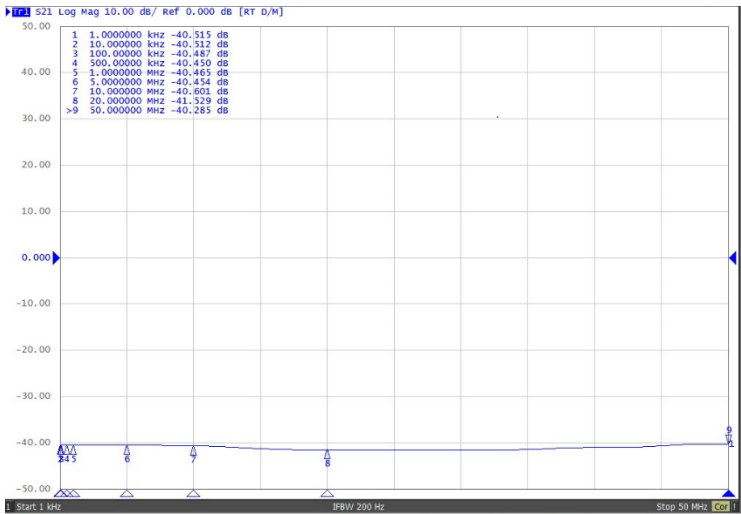
— Application Areas —



Technical Parameters

Sensitivity*	1 V/A
Output Impedance	50 Ω
Max. Peak Current	10,000 A
Max. Continuous Current	7 A
Rise Time	7 ns
A-s Integral	0.01 A-s
Lower Limit Frequency (-3 dB)	1 kHz
Upper Limit Frequency (-3 dB)	50 MHz
Thickness	40 mm
Inner Diameter	40 mm
Outer Diameter	116 mm
Interface Type	BNC type
Operation Temperature	0°C ~ 65°C
Weight	Approx. 1 kg
*Transfer Impedance: 0.5 V/A @ 50 Ω	

s21 Curve



CM 0050M Broadband Current Monitor s21 curve

Explanation: When the load impedance is 50 Ω: Transfer impedance (dB)=s21+34dB;
When the load impedance is 1 MΩ: transfer impedance (dB)=s21+34dB+6dB;

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