



Broadband Current Monitor Clamp

CM 0103M

Features

- > Undistorted waveform, physical isolation from current-carrying conductors
- > Max. Peak Current: 5 kA
- > Max. Continuous Current: 50 A
- > Supports the requirements for AC signal current measurement from 100 Hz to 3 MHz
- > Supports time-domain pulse current measurements with rise times above 117 ns

Introduction

The CM 0103M Broadband Current Monitor is designed for measuring alternating currents from 100 Hz to 3 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 3 MHz and transient pulse signals with rise times greater than 117 ns as specified in various standards, and is widely used in EMC conducted susceptibility (immunity) tests.

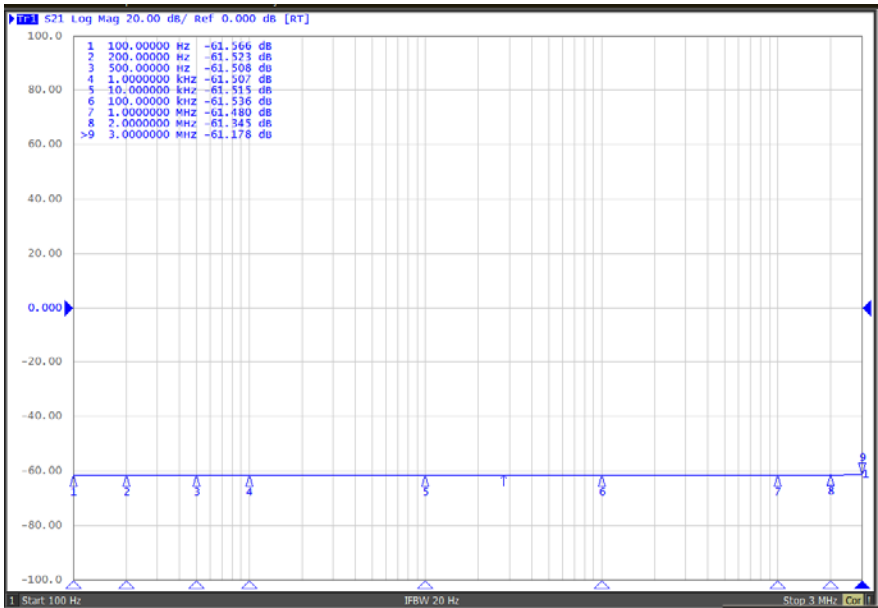
Application Areas



Technical Parameters

Sensitivity*	0.1 V/A
Output Impedance	50 Ω
Max. Peak Current	5,000 A
Max. Continuous Current	50 A
Rise Time	117 ns
A·s Integral	0.2 A·s
Lower Limit Frequency (-3 dB)	100 Hz
Upper Limit Frequency (-3 dB)	3 MHz
Inner Diameter	40 mm
Outer Diameter	116 mm
Interface Type	BNC type
Operation Temperature	0°C ~ 65°C
Weight	Approx. 1 kg
*Transfer Impedance: 0.05 V/A @ 50 Ω	

s21 Curve



CM 0103M Broadband Current Monitor s21 curve (100 Hz ~ 3 kHz)

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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