



Card Type Broadband Current Clamp

CCM 0301M

— Features —

- > Undistorted waveform, physical isolation from current-carrying conductors
- > Supports AC and time-domain pulse current measurement from 10 Hz to 1 MHz
- > Supports harmonic signal measurement up to 1 MHz

— Introduction —

The CCM 0301M Clamp-on Broadband Current Monitor is designed for measuring alternating currents from 10 Hz to 1 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 1 MHz and transient pulse signals with rise times greater than 350 ns as specified in various standards, and is widely used in EMC conducted susceptibility (immunity) tests.

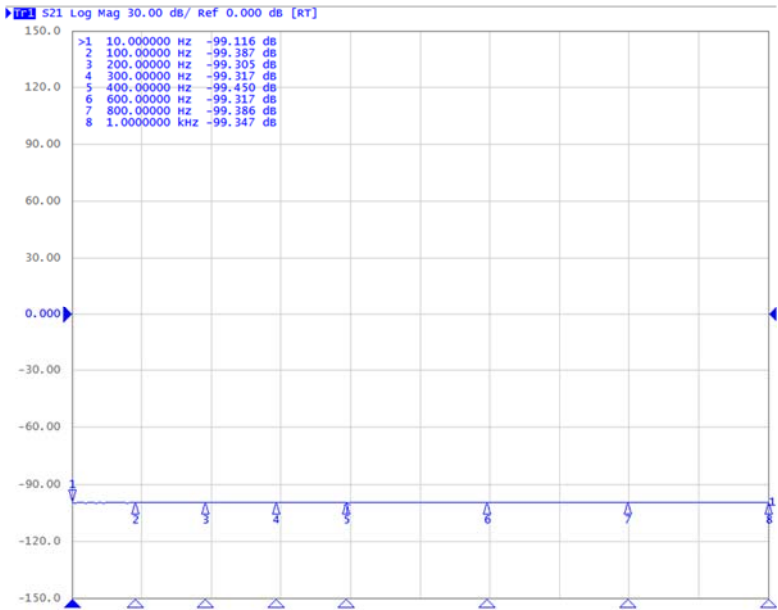
— Application Areas —



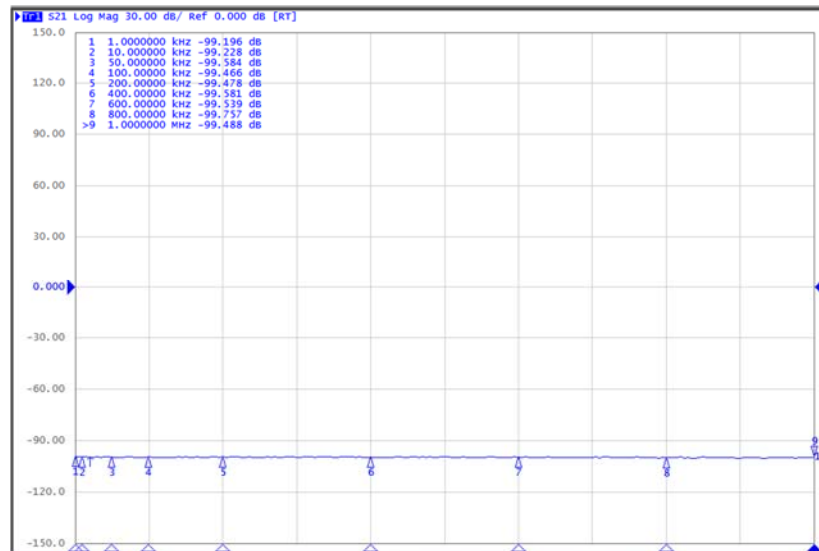
Technical Parameters

Sensitivity*	0.001 V/A
Output Impedance	50 Ω
Max. Peak Current	20,000 A
Max. Cont. Current	600 A
Rise Time	350 ns
A·s Integral	12 A·s
Lower Limit Frequency (-3 dB)	10 Hz
Upper Limit Frequency (-3 dB)	1 MHz
Inner Diameter	45 mm
Outer Dimensions	151(W)*45 (H)*160 (D) mm
Interface Type	BNC type
Operation Temperature	0°C ~ 65°C
Weigh	Approx. 1.7 kg
*Transfer Impedance: 0.005 V/A @ 50 Ω	

s21 Curve



CCM 0301M Clamp-on Broadband Current Monitor s21 curve (10 Hz ~ 1 kHz)



CCM 0301M Clamp-on Broadband Current Monitor s21 curve (10 Hz ~ 1 kHz)

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

When the load impedance is 1 M Ω : transfer impedance (dB)=s21+34dB+6dB;

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