



Surface Current Probe

BCM 0220M

Introduction

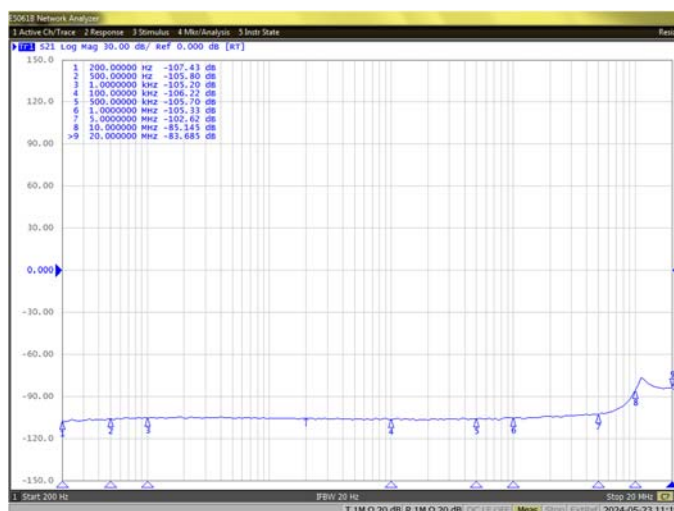
The BCM 0220M Surface Current Probe is used for measuring induced currents on conductor surfaces under electromagnetic radiation environments. This product transmits surface-induced currents to recording equipment in the form of voltage via electromagnetic coupling. It features undistorted waveforms and physical isolation from current-carrying conductors.

Technical Parameters

Sensitivity	0.01 V/A	Frequency Range	200 Hz~20 MHz
Output Impedance	50 Ω	Inner Length	40 mm
Max. Peak Current	20,000 A	Outer Length	116 mm
Max. Continuous Current	140 A	Thickness	40 mm
Rise Time	17.5 ns	Interface Type	BNC type
A·s Integral	1.2 A·s	Operating Temperature	0°C ~ 65°C
Effective Length	56 mm	Weight	0.7 kg

*When the broadband current monitoring clamp is terminated at 50 Ω, the sensitivity (transfer impedance) is 0.005V/A;
**When measuring surface current, dividing the measured current value by the effective length of the probe is the surface current density, measured in A/m.

s21 Curve



BCM 0220M broadband current monitoring clamp s21 curve

Explanation: When the load impedance is 50 Ω , the transfer impedance (dB) is $s_{21}+34\text{dB}+25\text{dB}$;

When the load impedance is 1M Ω : transfer impedance (dB) = $s_{21}+34\text{dB}+6\text{dB}+25\text{dB}$.

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