Current Injection Probe

BCIP- 500

Features

> Low insertion loss significantly reduces the RF amplifier power required to meet the test limit requirements
> Smooth frequency response greatly minimizes fluctuations in RF amplifier output power during high-current injection tests
> Wide frequency bandwidth with an upper frequency limit of 500 MHz, enabling distortion-free injection of broadband pulse signals

Introduction

The BCIP-500 Current Injection Probe complies with MIL-STD-461E/F/G CS114, CS115, CS116, ISO 7637-3, ISO 11452-4, RTCA DO-160G, and other relevant standards. It injects AC and pulse currents into the EUT through electromagnetic coupling, featuring distortion-free waveform transmission and physical isolation.

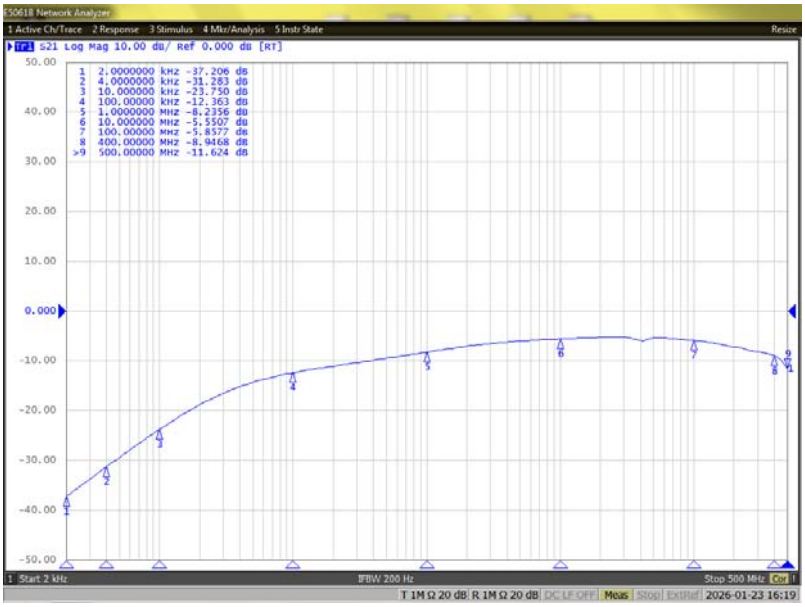
With ultra-low insertion loss, it reduces the required RF amplifier power by more than 50% for the same coupled current. Its wide bandwidth up to 500 MHz makes it ideal for broadband pulse current injection and widely used in EMC conducted susceptibility (immunity) testing.

Application Areas

Technical Parameters

Frequency Range	2 kHz ~ 500 MHz
Max. Input Power	100 W (continuous for 30 min)
	150 W (continuous for 15 min)
	200 W (continuous for 5 min)
Interface Type	N type
Height	70 mm
Inner Diameter	40 mm
Outer Diameter	127 mm
Weight	2.6 kg

Current Injection Curve



BCIP-500 Current Injection S21 Curve

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