

MODEL NUMBER:
BCIP400M

**Bulk Current
Injection Probe**



INTRODUCTION

The BCIP400M is a snap-on Bulk Current Injection probe.

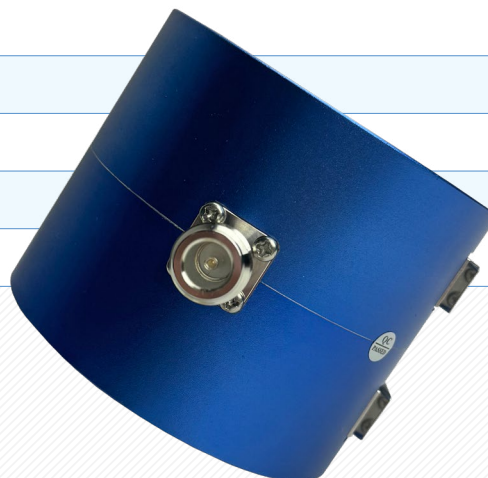
The BCI probe has been designed primarily for conducted immunity testing of automotive products in the frequency range 1 MHz to 400 MHz, according to standard ISO11452-4. The insertion loss is 5 dB for most of its bandwidth. In the frequency range 250 kHz to 230 MHz it is compliant with the insertion loss specification of ISO11452-4. The probe is individually characterized and usable in the frequency range 10 kHz – 450 MHz. The probe can be used to inject severity levels I (60mA), II (100mA), III (150mA), IV (200mA) and customer specific severity level V up to 350 mA.

The probe can also be used for RF current monitoring applications.

The aperture of the RF current monitoring probe is 27 mm. The typical insertion loss is 5 dB and the typical transfer impedance is 26 dB Ohm.

SPECIFICATION

Compliance	ISO 11452-4; IEC / EN 61000-4-6 insertion loss specification for BCI clamps above 250 kHz
Characterized freq. range	10 kHz to 500 MHz
Insertion loss	5 dB typ.; 50 Ohm system (100 Ohm loop impedance)
Transfer impedance	29 dB Ohm typ.; 50 Ohm system (100 Ohm loop impedance)
Power rating	capable of injecting severity levels I, II, III, IV according to ISO 11452 and customer specified level V up to 350 mA
Max. core temperature	80 °C
Connector type	N female
Aperture diameter	27 mm
Outside diameter	92 mm
Height	76 mm
Weight	1.2 kg



TRANSFER IMPEDANCE & COUPLING FACTOR

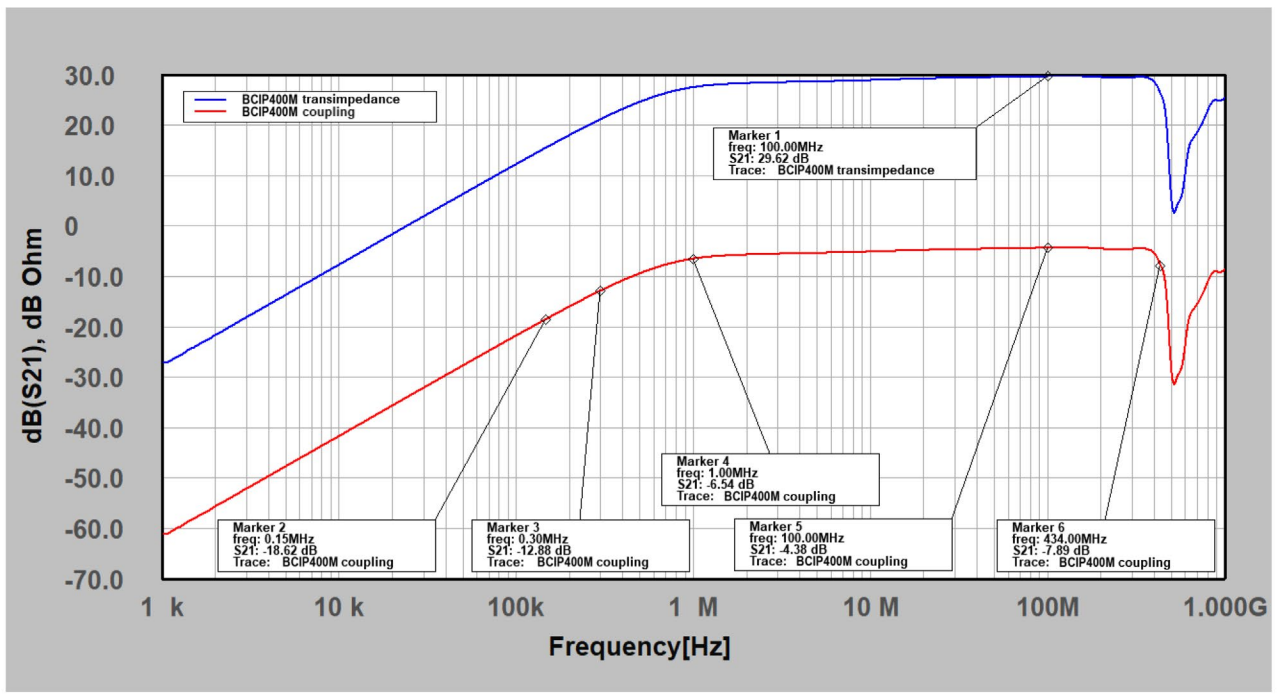


Figure1: typical insertion loss and transfer impedance: 1 kHz to 1 GHz logarithmic, 100 Ohm loop impedance

