

CDN BCI-P1 / CDN BCI-P1_MT-1

Bulk current injection probe

ISO / EN 61000-4-6, ISO 11452-4

- For test according to ISO 11452-4 and IEC 61000-4-6
- Frequency range from **1 MHz - 400 MHz** (4 kHz - 400 MHz, if connected to MT-1)
- Designed for Automotive BCI testing

Delivery with calibration jig



Overview

The bulk current injection probe is used to inject RF-current into cables of electrical equipment to test the susceptibility against radiated electromagnetic energy.

It was designed to meet the specifications of ISO 11452-4 and IEC 61000-4-6 standards for automotive BCI testing and more.

The probe can be easily clamped around test conductors and supports cable harness diameters up to 40 mm diameter.

Key facts

- Delivery with calibration jig
- Integrated temperature sensor
- Low insertion loss

CDN BCI-P1 / CDN BCI-P1_MT-1

Bulk current injection probe

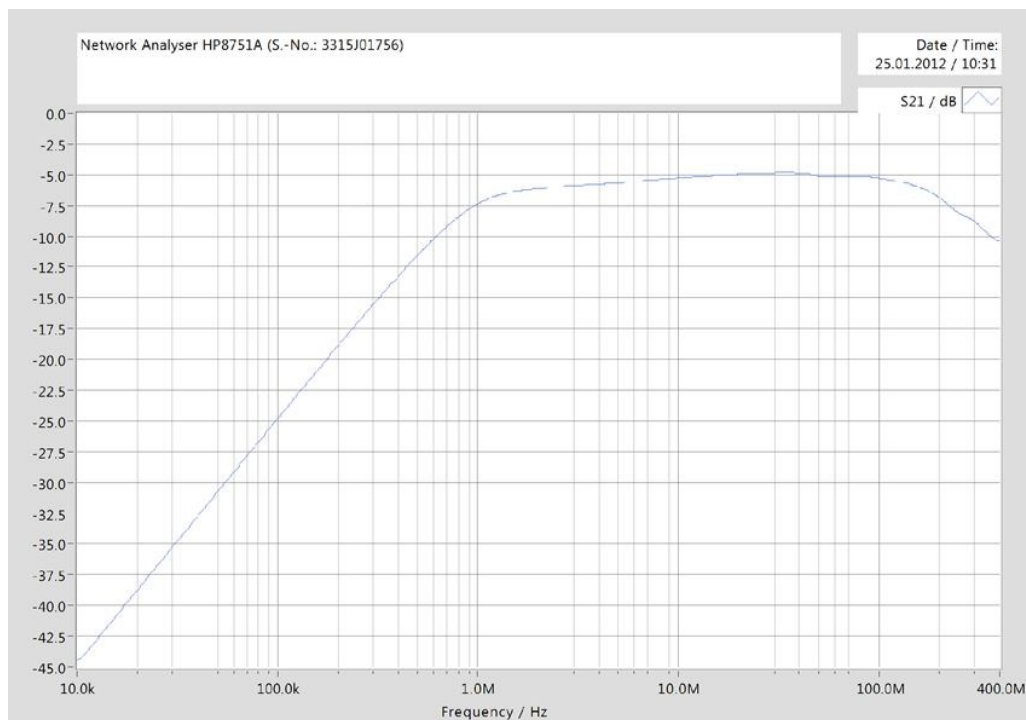
Technical data I

Bulk current injection probe

Frequency range	1 MHz (4 kHz) - 400 MHz
Input connector	Typ N female
Inner diameter	40 mm
Outer diameter	120 mm
Width	40 mm
Max. core temperature	90 °C
Turns ratio	1:1

Input power rating until core temperature is 90 °C	90 min @ 70 W (48.45 dBm) 45 min @ 100 W (50 dBm)
Primary inductance	5.1 µH @ 100 kHz
Ambient temperature	0 - 40 °C
Fastening	1 Clip

Technical data II: Insertion loss



Sales Partner:

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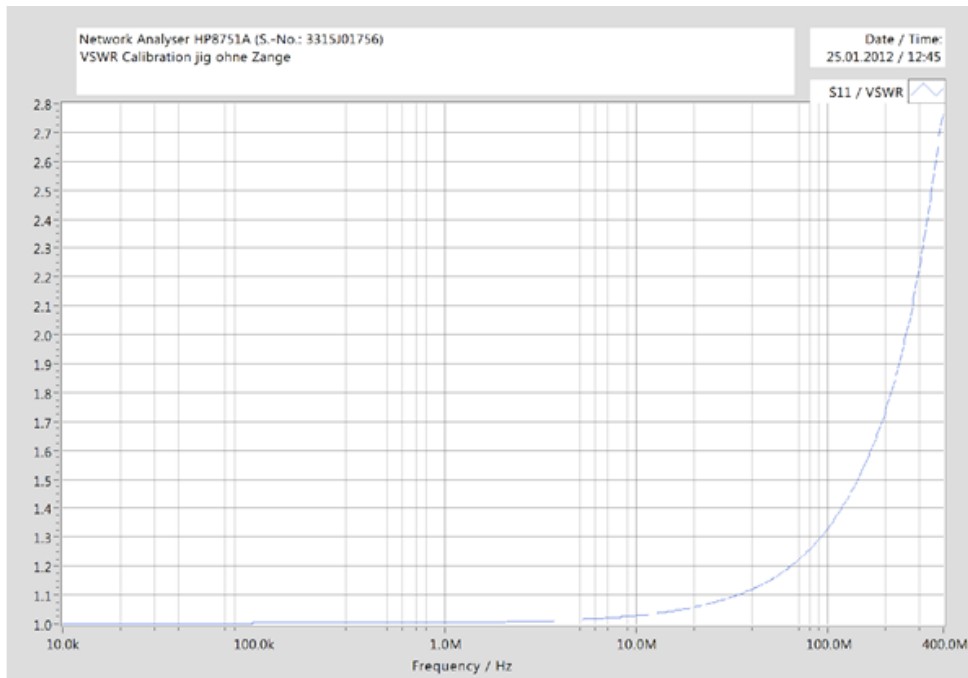
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Bulk current injection probe

Technical data III: Voltage standing wave ratio



Technical data IV / CDN BCI-P1

Calibration jig (included)

Connector (Input) Typ N female

The calibration jig is used for insertion loss measurement of the bulk current injection probes and meets ISO 11452-4 and IEC 61000-4-6 standards.



Scope of delivery: CDN BCI-P1

- 1 x CDN BCI-P1
- 1 x calibration set
- 1 x calibration certificate
- 1 x SMB cable (temperature sensor cable)
- User manual



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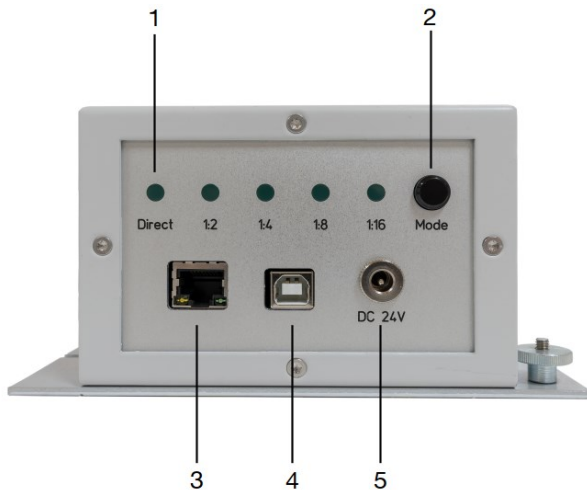
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Bulk current injection probe

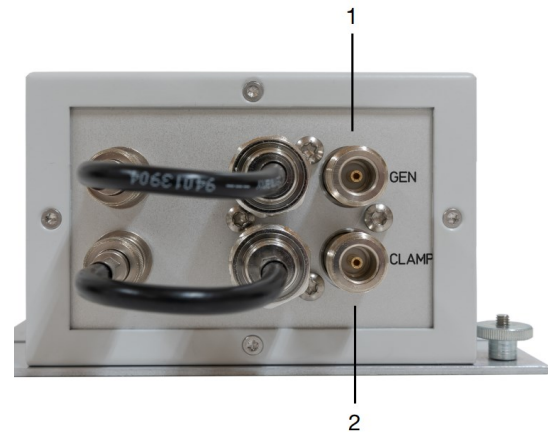
CDN BCI-P1_MT-1 (Transformer for BCI-P1)

Transformer for CDN BCI-P1 to meet MIL STD-461G (CS114)



Front side

- 1. Indicator
- 2. Mode switch
- 1. Lan interface
- 2. USB interface
- 3. Power supply



Back side

- 1. Generator
- 2. Clamp

Remote Control

The main controller accepts ASCII commands via LAN and USB interface.

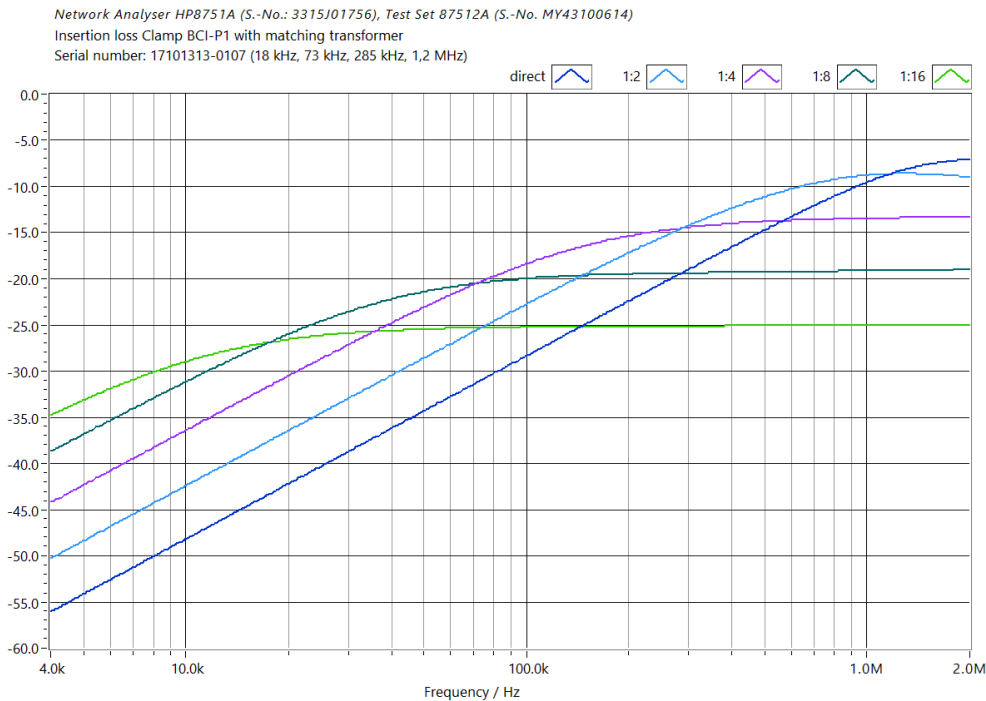
CDN BCI-P1_MT-1	
Frequency	Winding Ratio
4 ... 20,7 kHz	1:16
20,7 ... 82,1 kHz	1:8
82,1 ... 340 kHz	1:4
340 kHz ... 1,17 MHz	1:2
1,17 ... 400 MHz	direct

CDN BCI-P1_MT-1	
Connectors	
Generator	N-connector, 50 Ohm (max. input power: 100 W / 500 W direct mode)
Clamp	N-connector, 50 Ohm
USB	emulated COM port with 9600 Baud, 8 data bits, 1 stop bit, no parity
LAN	RJ45 jack
Power	2.1 mm x 5.5 mm socket (+ inside), 24 V DC / 0.5 A

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Bulk current injection probe

Technical data V: Frequency chart with matching transformer



Scope of delivery: CDN BCI-P1_MT-1

- 1 x CDN BCI-P1
- 1 x CDN BCI-P1_MT-1
- 1 x calibration jig
- 1 x calibration certificate
- 1 x SMB cable (temperature sensor cable)
- Power supply unit (P4018) with mains cable
- 1 x USB cable (USB A to USB B)
- User manual

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 172105