



Data and Control Lines Coupling/Decoupling Network

CDN 405CANR

- IEC 61000-4-5
- GB/T 17626.5

Features

- > Supports testing of charging pile CAN buses and twisted-pair RS485 lines
- > Compatible with 1.2/50 μ s and 8/20 μ s combination wave
- > Coupling modes: CAN H + CAN L simultaneously to ground / LIN to ground
- > The data rate of CAN up to 10 Mbit/s, LIN 100 kbit/s
- > Maximum operating current 2 A
- > Both AE and EUT ports adopt 4 mm banana plug
- > External replaceable coupling resistor

Introduction

The CDN 405CANR coupling/decoupling network complies with IEC 61000-4-5 and GB/T 17626.5. It is a professional CDN specially developed for surge immunity testing of CAN/LIN buses.

The CDN 405CANR achieves a peak voltage of 4 kV and features excellent decoupling performance. When tested with a 4 kV surge, the AE port only has a maximum residual voltage of 90 V, requiring no extra decoupling parts. Stable decoupling and transmission speed are guaranteed. Its compact design enables easy portability. It is extensively used for automotive electronics, industrial control and other applications.

Application Areas



Technical Parameters

Coupling Waveform	1.2/50 μ s, 8/20 μ s
Current-limiting Resistor	10 Ω , $\pm$ 5% (external, replaceable)
Pulse Voltage	4 kV
Coupling Elements	Gas Discharge Tube (GDT) built-in standard accessories
Coupling Method	CAN H+CAN L simultaneous to ground/ LIN to ground
Communication Interface Specifications	4 mm banana plug
Data Rate	CAN: 10 Mbit/s LIN: 100 kbit/s
Working Voltage	Max. 12 V DC
Working Current	Max. 2 A
Decoupling Inductor	20 mH
Residual Voltage	<90 V (at AE port)

General Parameters

Weight	Approx. 7 kg
Dimension	220 (W)*135 (H)*360 (D) mm
Enclosure Material	Aluminum alloy
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Grounding Wire, Shorting Plug, Impedance Module (NR10), User Manual

Optional Accessories

1	Impedance Module	Model: NR40 Impedance Value: 40 Ω , $\pm$ 5%
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