



Data and Control Lines

Coupling/Decoupling Network **CDN 405CAN**

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

Features

- > Max. pulse voltage 4 kV
- > Supports data transmission rate up to CAN 10 Mbit/s, LIN 100 kbit/s
- > Support EMC generators of all brands, quick connection without extra adaptation
- > Superior decoupling, no extra auxiliary protection; plug-and-play to cut setup cost
- > Two coupling modes: CAN_H+CAN_L simultaneous to ground, LIN to ground

Introduction

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

The CDN 405CAN supports 10 Mbit/s CAN and 100 Kbit/s LIN communication. It ensures lossless and stable data transmission, reproduces real device communication to avoid test misjudgment and deliver repeatable, precise test data.

Application Areas



Technical Parameters

Coupling Waveform	1.2/50 μ s, 8/20 μ s
Current-limiting Resistor	40 Ω , $\pm$ 5%
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 (coupled surge voltage)

General Parameters

Weight	Approx. 10 kg
Dimension	360 mm (L)*220 mm (W)*135 mm (H)
Enclosure Material	Aluminum alloy
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

Test Cable, User Manual, Shorting Plug
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LIN Bus Schematic 1

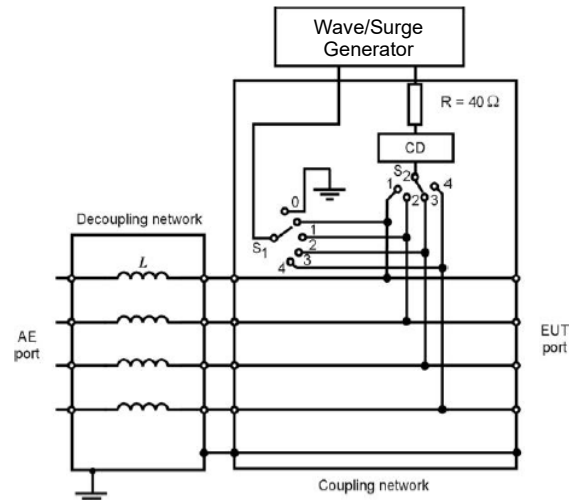


Figure 1 designed according to IEC 61000-4-5: 2017 Figure 9

CAN Bus Schematic 2

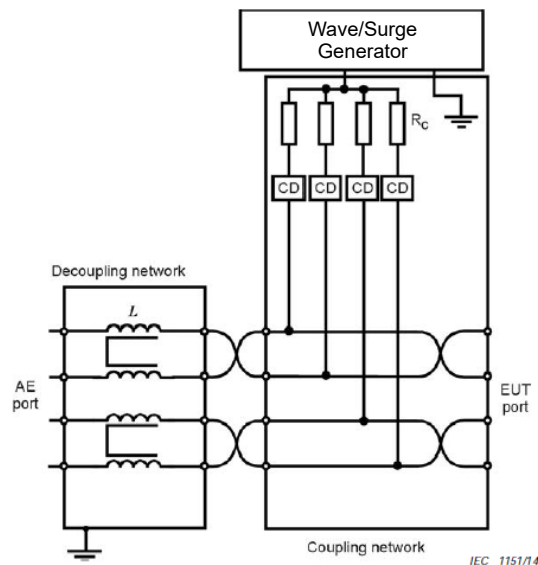


Figure 2 designed according to IEC 61000-4-5: 2017 Figure 10

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