



Data and Control Line Coupling/Decoupling Network

CDN 418CAN

- IEC/EN 61000-4-12
- IEC/EN 61000-4-18
- GB/T 17626.12
- GB/T 17626.18

Features

- > Compatible with all brands of EMC generators without additional adaptation
- > Excellent decoupling performance, no extra protection required for auxiliary equipment
- > Compatible with multiple scenarios and has two coupling modes including CAN H+CAN L to ground, and LIN to ground.
- > Data rate is CAN 10 Mbit/s, LIN 100 Kbit/s
- > The coupling and decoupling modules are externally mounted and replaceable

Introduction

The CDN 418CAN coupling/decoupling network is a professional device designed for immunity tests of damped oscillatory waves and ring waves on CAN/LIN lines. complies with IEC 61000-4-12, IEC 61000-4-18, GB/T 17626.12 and GB/T 17626.18.

The CDN 418CAN supports data transmission rates of 10 Mbit/s for CAN lines and 100 Kbit/s for LIN lines. At a test voltage of 3 kV, the max. residual voltage at the AE port is only 25 V, and no additional decoupling components are required. Greatly improve test efficiency.

Fully satisfies compliance tests across automotive, industrial and communication sectors, ensuring standard-compliant and credible test results.

Application Areas



Technical Parameters

Coupling waveforms	Ring wave: voltage rise time 0.5 μ s, current rise time 0.2 μ s ~ 1 μ s, frequency: 100 kHz Damped oscillatory wave: voltage rise time 75 ns, frequency: 100 kHz/1 MHz
Pulse Voltage	Max. 4 kV
Coupling Mode	CAN H + CAN L to ground (simultaneously)/LIN to ground
Coupling Component	CD-TSS15: For LIN lines, TVS coupling, standard configuration. CDT-TSS15: For CAN lines, TVS coupling, standard configuration.
Decoupling Component	DPT-TSS15: TVS decoupling, standard configuration
Communication Interface	4 mm banana plug (EUT)
Data Rate	CAN 10Mbit/s, LIN 100 Kbit/s
Test Voltage	Max. 12 V DC
Test Current	Max. 2 A
Residual Voltage	< 25 V

General Parameters

Weight	Approx. 5 kg
Dimension	360 mm(L) * 220 mm(W) * 135 mm(H)
Enclosure Material	Aluminum
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Test Leads, Grounding Wire, Coupling Module, Decoupling Module, User Manual

Optional Main Unit

1	Ring Wave Simulator	Model: RWS 600 Output voltage: 0.25 kV ~ 6 kV Oscillation frequency: 100 kHz	
2	Damped Oscillatory Wave Immunity Simulator	Model: DOS 300 Output voltage: 0.2 kV ~ 3.3 kV Oscillation frequency: 100 kHz/1 MHz	

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