

Coupling Decoupling Network

Features

Frequency Range 150 MHz to 230 MHz

Designed for IEC / EN 61000-4-6

Three conductor power cable

Individual Calibration Included

Three Year Warranty



Description

Com-Power CDN-M325E is a part of the series of Coupling/Decoupling Networks designed specifically for testing product for conducted immunity per IEC/EN 61000-4-6.

The CDN-M325E is designed for testing products that uses three conductor power cable. It has three 4 mm shrouded banana socket for both EUT and AE power connections. The CDN-M325E can handle up to 25 Amps AC and 17 Amps DC of current.

The RF disturbance signal coupling port is female BNC. It can handle up to 40V of RF input Voltage. The bottom surface of the CDN is not painted for easy and effective grounding.

All Com-Power CDNs are individually calibrated. The Com-Power CDN-M325E fully complies with the requirement contained in the IEC 61000-4-6 and CISPR 16-1-2.

All Com-Power CDNs can be purchased separately or as part of the CIS series conducted immunity test system. This is a pre-packaged solution that includes an ACS series power amplifier and all accessories required for the test.

Application

During conducted Immunity testing, CDNs are utilized to provide a means of coupling RF common mode signals to each line. In addition, CDNs provide the required common mode impedance to the EUT, isolation to the auxiliary equipment via common mode decoupling of the disturbance signals and provide uninterrupted communication between the EUT and auxiliary equipment.

Before you begin testing with the CDN-M325E you will need to establish calibrated drive levels corresponding to your desired test levels. During drive level calibration, the RF signal level being injected to the CDN is adjusted incrementally until the voltage level measured at the 150 Ω to 50 Ω adapter (ADA-515-2) connected to the EUT port is approximately equal to the Umr value given in the table below. The ADA-515-2 and accessories needed for this test are available from Com-Power.

Test Levels Open Circuit Voltage	Umr
1	0.167
3	0.5
10	1.67

Umr= Voltage level measured at the output of the 150 $\!\Omega$ to 50 $\!\Omega$ adapter (ADA-515-2)

Coupling Decoupling Network CDN-M325E

Specifications

Product Name	Coupling Decoupling Network (CDN)
Compliant Test Standards	IEC / EN 61000-4-6
Application	Three conductor power cable
Frequency Range	150 kHz to 230 MHz
RF Input Voltage	4oV (Max)
RF Input Connector	50Ω BNC (Female)
Voltage Rating	250 VAC / 350 VDC (Line to Ground)
Current Rating	25 Amps AC / 17 Amps DC (Max)
AE and EUT Connections	4 mm shrouded banana sockets
Common Mode Impedance	150 kHz - 26 MHz: 150Ω ± 20Ω
	26 MHz - 80 MHz: 150Ω + 60Ω / – 45Ω
	80 MHz - 230 MHz: 150 Ω + 60 Ω / – 60 Ω
Voltage Division Factor	9.5 dB +4 / -1
Decoupling of Common	≥ 40 dB (EUT/AE)
Mode Disturbance	
Dimensions	6 x 6 x 13 inches
	15.2 x 15.2 x 33 cm
Weight	5 lbs.
	2.3 kg
Accessories Available from	ADA-M325E shorting adapters
Com-Power for setting test	ADA-515-2 150Ω to 50Ω adapters
levels and running the test	TEP-050 50Ω Terminator
	1, 3, 6, 10, 20, 30 dB Power Attenuators
	Directional Coupler



Shorting Adapter Set ADA-M325E





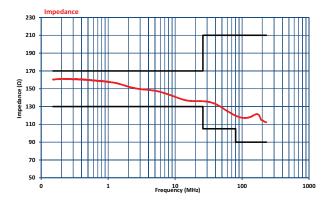
ADA-515-2 Adapter Set

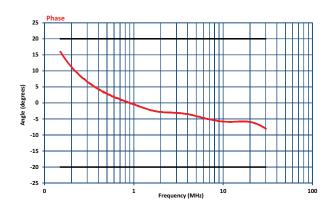


TEP-050 Terminator

All values are typical values unless otherwise specified. Specifications are subject to change without notice.

Typical data





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