

Features

Frequency Range 150 MHz to 230 MHz

Designed for IEC / EN 61000-4-6

Single conductor power cable

Individual Calibration Included

Three Year Warranty

Description

Com-Power CDN-M125E 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-M125E is designed for testing products that uses a single conductor power cable. It has one 4 mm shrouded banana socket for both EUT and AE power connections. The CDN-M125E 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-M125E 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-M125E 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 Ω to 50 Ω adapter (ADA-515-2)

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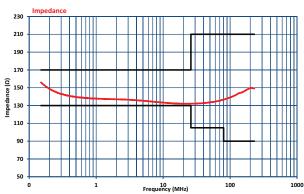
COM-POWER CORPORATION Specifications

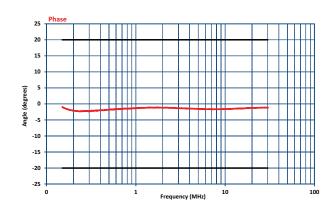
Coupling Decoupling Network CDN-M125E

Product Name	Coupling Decoupling Network (CDN)	
Compliant Test Standards IEC / EN 61000-4-6		Shorting Adapter Set ADA-M125E
Application Single conductor power cable		
Frequency Range 150 kHz to 230 MHz		
RF Input Voltage 40V (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: 150Ω + 60Ω / - 60Ω		COMPOSE Ana 413 the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to a load of the to
Voltage Division Factor	9.5 dB +4 / -1	
Decoupling of Common Mode Disturbance	≥ 40 dB (EUT/AE)	ADA-515-2 Adapter Set
Dimensions	6 x 6 x 13 inches 15.2 x 15.2 x 33 cm	ADA 313-2 Adapter Set
Weight	5 lbs. 2.3 kg	
Accessories Available from Com-Power for setting test levels and running the test	ADA-M125E shorting adapters ADA-515-2 150Ω to 50Ω adapters TEP-050 50Ω Terminator 1, 3, 6, 10, 20, 30 dB Power Attenuators Directional Coupler ACS series Power Amplifiers	TEP-050 Terminator

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

Typical data





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