

CDN for Surge Test on High-speed Communication Lines

CDN 405T8

Datasheet



In Compliance with

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

Introduction

The CDN 405T8 is designed to conduct surge test on unshielded symmetric high-speed communication lines for data transmission rate up to 1,000 MBit/s. It fully meets the requirement of IEC/EN 61000-4-5: 2005 (figure 14). High conductive magnetic material is used as decoupling component, which makes decoupling capacity and transmission rate stable.

Features

- > High conductive magnetic material is used as decoupling component;
- > Capable of testing output to 4-path 8-line simultaneously;
- > Data transmission rate 10 MB / 100 MB / 1000 MB;
- Capable of Superposing surge waveforms simultaneously;
- > Powerful surge resistance, standard withstand voltage up to 6 kV, 10 kV is customized;
- > Replaceable current-limiting resistors;

Application Areas

- > Communication
- > IT
- > Medical
- -----
- > Broadcast > Railway
- > Avionics> New energy

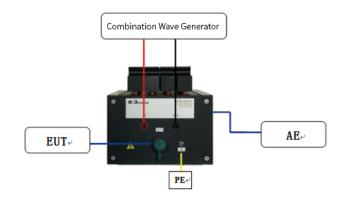
> Telecom

> Military



Technical parameters		
Model No.	CDN 405T8	
Standard	IEC/EN 61000-4-5	
Coupling Waveform	1.2/50 µs, 8/20 µs	
	10/700 μs , 5/320 μs	
Pulse Voltage	6 kV (10 kV is customized)	
Coupling Mode	Common mode (line to ground)	
Coupling	90 V gas discharge tube	
Components		
Communication	RJ45 female connector to	
Port	connect communication line	
	Pair 1: pins 1 / 2	
Din Assignment	Pair 2: pins 3 / 4	
Pin Assignment	Pair 3: pins 5 / 6	
	Pair 4: pins 7 / 8	
Data Transmission	10 MBit/s, 100 MBit/s,	
Rate	1,000 MBit/s	
Working Voltage	DC 3 V~12 V	
Working Current	Max. 1 A	
Residual Voltage	< 10% (coupling surge voltage)	
Decoupling	20 mH	
Inductance		

Test Connection Illustration:



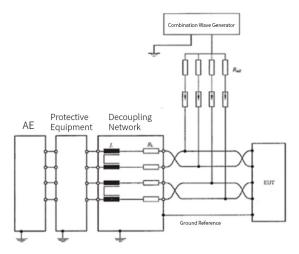
General Data		
Weight	Approx. 10 kg	
Dimension	360 mm(L)×220 mm(W)×133 mm(H)	
Enclosure	A1 ·	
Material	Aluminum	
Ambient		
Temperature	5 °C – 35 °C (operation condition)	
Relative		
Humidity	45% - 75% (operation condition)	
Package	Carrying case	

Accessories		
HV Cable	1m HV silicone line with banana plug	2
Earth Cable	1.5 m yellow green	1
Internet Cable	1 m cat 6	2
Document	Factory test certificate	1
	User manual	1

Optional accessories	
NR80	80 ohm×2 (for 2 lines, 1.2/50 μs,8/20 μs)
NR160	160 ohm×4 (for 4 lines, 1.2/50 μs,8/20 μs)
NR320	320 ohm×8 (for 8 lines, 1.2/50 μs,8/20 μs)
NR50	50 ohm×2 (for 2 lines,10/700 μs,5/320 μs)
NR100	100 ohm×4 (for 4 lines,10/700 μs,5/320 μs)
NR200	200 ohm×8 (for 8 lines,10/700 μs,5/320 μs)
NR25	25 ohm×8 (for 8 lines,10/700 μs,5/320 μs)



Design Schematic Circuit:



As per IEC 61000-4-5:2005 Figure 14



SUZHOU 3CTEST ELECTRONIC CO., LTD.

Add.: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China Tel: +86 (0)512 6807 7192 Fax: +86-512-68079795 Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn www.3c-test.com

3ctest is always striving for product innovation and quality improvement.

Product appearance and technical specifications are subject to change without further notice.