

CDN for Unshielded Unsymmetric Communication Line

CDN 405AF4

Datasheet



In Compliance with

- > EN/IEC 61000-4-5
- > ITU-T K.20
- > ITU-T K.21
- > ITU-T K.45

Introduction

The CDN 405AF4 is designed according to figure 9 of IEC/EN 61000-4-5:2017, it's used for test unshielded unsymmetric communication line with transmission rate up to 100 Kbit/s. The coupling device and decoupling device used are optional for different test requirement. Max. surge test is 6 kV.

Features

- > Used for 1/2/3/4 unshielded lines;
- > For waveform 1.2/50 μ s, 8/20 μ s;
- > Coupling mode: line to line and line to earth
- > Transmission rate 100 Kbit/s;
- > Max. working current 2 A;
- > AE/ EUT port: 4 mm banana plug;

Application Areas

- | | |
|-----------------|-------------------------|
| > Communication | > IT |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcasting | > New energy electrical |
| > Railway | power/ automotive |

Technical parameters	
Coupling Waveform	1.2/50 μ s, 8/20 μ s
Pulse Voltage	6 kV
Coupling Mode	1/2/3/4 unshielded line Line to line and line to earth
Coupling Device	Optional GDT90, TVS76, C05 Optional GDT90, TVS76, TVS200, C250
Output Impedance	40 $\Omega \pm 5\%$
Communication Interface	4 mm banana plug
Transmission Rate	100 Kbit/s
Working Voltage	Depend on coupling/decoupling device
Working Current	Max. 2 A
Decoupling Inductance	20 mH

General Parameters	
Weight	Approx. 14 kg
Dimension	475 mm(L)×235 mm(W)×195 mm(H)
Shell Material	Aluminum
Operating Temperature	15 $^{\circ}$ C - 35 $^{\circ}$ C
Operating Humidity	45% - 75%
Package	Carton

Design Schematic Diagram:

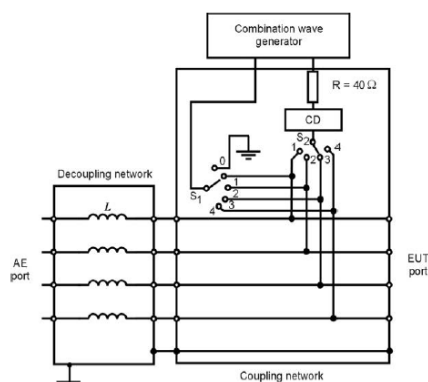


Figure 9 of IEC 61000-4-5: 2017

Standard Accessories	
Test line, Current-limiting resistor NR 40, User manual	

Options	
Coupling device	CD-GDT90 (90V DC)
Coupling device	CD-TVS76 (76V DC)
Coupling device	CD-C05 (0.5 μ F capacitor)
Decoupling device	DP-GDT90 (90V DC)
Decoupling device	DP-TVS76 (76V DC)
Decoupling device	DP-TVS200 (200V DC)
Decoupling device	DP-C250 (250V AC capacitor)

Note:

- It's necessary to choose one coupling device and one decoupling device when purchasing the CDN 405AF4.
- The residual voltage of CDN 405AF4 is related to the type of decoupling device.

Picture of options (examples)



Coupling device CD-GDT90



Decoupling device DP-GDT90



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