

Unshielded asymmetric communication line lightning surge coupled decoupling network

CDN 405AF4

(Only 1.2/50, 8/20 waveforms included)



In Compliance with

- > EN/IEC 61000-4-5
- > GB/T 17626.5
- > ITU-T K.20
- > ITU-T K21
- > ITU-T K.45

Introduction

CDN 405AF4 Coupled decoupled networks used to evaluate the lightning-surge resistance of low-speed unshielded asymmetric communication lines. It can be used to test 100KBit/s Ethernet, and the strong decoupling capability can protect the auxiliary device (AE) from surges, ensuring repeatability of the test. The maximum surge voltage is 6KV. This CDN will meet the IEC/EN 61000-4-5:2017 standard upgrade. It is designed in accordance with IEC/EN 61000-4-5 FIG. 9 Unshielded asymmetric low-speed data line standards. Decoupling performance and transmission rate are stable, small size and easy to carry and use.

Features

- > Can be used to test 100K Bit/s rate;
- > 1/2/3/4 Wire Unshielded wire to wire/wire to ground;
- > Coupling waveform 1.2/50 μ s, 8/20 μ s;
- > Maximum working current 2A;
- > The interface specification is 4mm banana head;
- > Compatible with foreign generator output ports for communication testing;
- > Replace current limiting resistors, couplers and decoupling devices according to test requirements

Features

- > Communication > IT
- > Telecom > Military
- > Medical > Avionics
- > TV Broadcasting > New energy electrical
- > Railway > New energy vehicles

Technical Parameters	
Project	CDN 405AF4(Only 1.2/50, 8/20 waveforms included)
Standard	IEC/EN 61000 -4 -5
Coupled Waveform	1.2/50μs、8/20μs
Impulse Voltage	6 kV
Coupled Mode	1/2/3/4 Wire Unshielded wire to wire/wire to ground
Coupled Apparatus	GDT90, TVS76, and C05 are optional
Decoupling Device	GDT90, TVS76, TVS 200, C250 optional
Output Impedance	One 40Ω impedance module
Communication Interface Specification	4 mm banana head
Data Rate	100 Kbit/s
Working Voltage	It is determined by coupling module and decoupling module
Working Current	Max. 2A
Decoupling inductance	20 mH

Common Parameter	
Weight	Approx 14 Kg
Dimension	475 mm×235 mm×195 mm (Length × width × height)
Case Material	Aluminum material
Environment Temperature	15 °C - 35 °C (Operating conditions)
Relative Humidity	45% - 75% (Operating conditions)
Packaging Box	carton

Standard Accessories	
Test Line	Test line number
Current Limiting Module	NR40
Data	Original test certificate
	User Manual

Tracking Generator Option	
CD-GDT90	Coupled apparatus GDT90 (90V DC)
CD-TV76	Coupled apparatus TVS76 (76V DC)
CD-C05	Coupler 0.5uF capacitor
DP-GDT90	Decoupling device GDT90 (90V DC)
DP-TV76	Decoupling device TVS76(76V DC)
DP-TV200	Decoupling device TVS200 (200V DC)
DP-C250	Decoupling device 250VAC capacitor

Note: When purchasing a CDN network, you must purchase a coupler and decoupling device from the optional components to use the CDN network. In addition, the residual pressure is related to the type of decoupling device, and the waveform and amplitude of the residual pressure of different decoupling devices are different.

Optional device example:



Coupler CD-GDT90



Decoupling device DP-GDT90



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