

High-speed communication line CDN for lightning surge CDN 405T8



As per

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

Description

CDN 405T8 coupling/decoupling network is to test the capacity of high speed communication line for surge test. Data transmission rate is up to 1,000MBit/s. It is designed to meet the requirements of figure 14 in IEC/EN 61000-4-5: 2005. The material of decoupling device is high conductive magnetic material. Stable decoupling capacity and transmission rate, easy to use and compact size.

Features

- > High conductive magnetic material for decoupling device
- > Test output to 4-path 8-line
- > Data rate up to 10MB/100MB/1000MB
- > Superimposing surge waveforms
- > High capacity of surge resistance, standard withstand voltage up to 6KV, 10KV withstand voltage need to be customized.
- > Replaceable current-limiting resistors

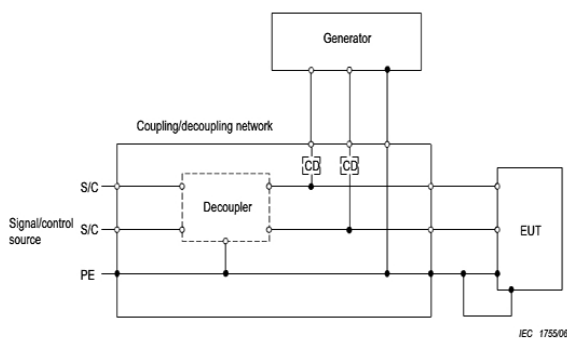
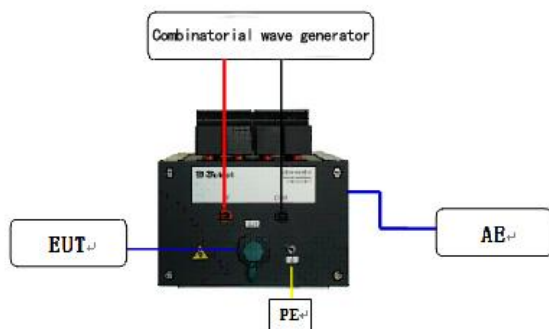
Industries

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

Technical parameters	
Model	CDN 405T8
Standard	IEC/EN 61000-4-5
Coupling waveform	1.2/50us, 8/20us
Coupled current waveform	810/700us, 5/320us
Pulse voltage	6kV (10 kV need to be customized)
Coupling mode	Common mode (line to ground)
Coupling device	90V gas discharge tube
Communication connector	RJ45 female connector to connect communication line
Pin assignment	Pair 1: pins 1 / 2 Pair 2: pins 3 / 4 Pair 3: pins 5 / 6 Pair 4: pins 7 / 8
Data rate	10MBit/s, 100MBit/s, 1,000MBit/s
Working voltage	DC 3-12V
Working current	Max 1A
Residual voltage	< 15% (coupling surge voltage)
Decoupling inductor	20mH

Optional accessories		
SZR100	100ohm (as per 10/700us, 5/320us)	
SZR160	160ohm (as per 1.2/50us, 8/20us)	
SZR200	200ohm (as per 10/700us, 5/320us)	
Accessories		
HV cable surge	1m HV silicone line with banana plug	2
Earth cable	0.3m yellow green	1
Internet cable	1m cat 6	2
SZR200	Current-limiting module	8
Document	Factory test certificate	1
	User manual	1
General Data		
Weight	3.6kg	
Dimension	L×W×H 250×200×133cm	
Enclosure	Aluminum	
Temperature	15 °C - 35 °C (operation condition)	
Humidity	45% - 75% (operation condition)	
Package	carrying case	

Test connection schematic:





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