

Coupling Networks

CN14598-19

Datasheet



In Compliance with

- > GB/T 14598.19
- > IEC 60255-22-7

Introduction

CN14598-19 is designed to evaluate whether the EUTs under rated frequency can operate normally when they are excited and suffered from the power frequency disturbances of short-term, conductive, common-mode and differential-mode in DC static. Powerful coupling capability guarantees that the EUTs are capable of meeting the requirements of immunity performance in the process of power frequency testing and the parameters' specification after finishing testings to ensure the test's repetition. The coupling performance and transmission rate is stable. Compact size makes it easy to carry and use.

Features

- > As per GB/T 14598.19& IEC 60255-22-7;
- > Common mode and differential mode can be realized;
- > No additional protection for AE is needed;
- > Different mode of test can be realized by means of replacing limiting resistors;

Application Areas

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

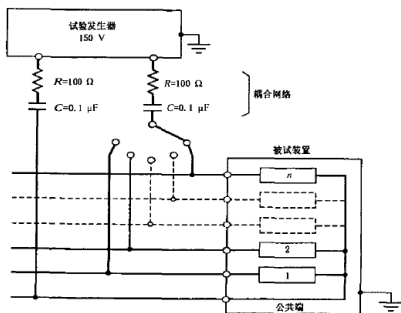
Technical Parameters	
Standard	GB/T 14598.19: 2007 IEC 60255-22-7:2003
Model No.	CN14598-19
Coupling Waveform	Power frequency voltage wave, duration time is at least 10 s
Coupling Mode	RC coupling, common mode and differential mode
Coupling Component	100 Ω /0.047 uF with a tolerance of ±5%, RC module, External
	100 Ω /0.1 μF with a tolerance of ±5%, RC module, External
	220 Ω/0.47 μF with a tolerance of ±5%, RC module, External
Operating Voltage	Max.100 V DC (100 Ω / 0.047 μF) RC module 1
	Max.150 V DC (100 Ω / 0.1 μF) RC module 2
	Max.300 V DC (220 Ω / 0.47 μF) RC module 3
Test Setup	The connecting length between EUT and coupling network shall be less than 2 m.

General Parameters	
Weight	2.8 kg
Dimension	250 mm(L)× 200 mm(W)× 133 mm(H)
Enclosure Material	Aluminum
Ambient Temperature	15°C-35°C
Relative Humidity	45% - 75%
Package Case	Carton

Accessories		
HV Cables	SFK 15F/SW Black double-end sheath	1 pc
Grounded Cables	0.5 m yellowish green	1 pc
Short-Link Line	U-shape short-link plug	9 pcs
Coupling module	RC coupling module	6 pcs
Materials	Factory Inspection Report	1 set
	Operating Instruction	1 set

Standard Schematic Diagram

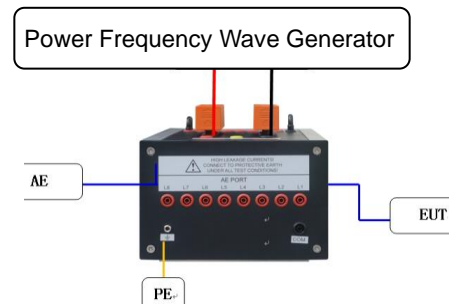
Figure 1: Example for A-Level differential mode test



As per GB/T 14598.19---2007/IEC 60255-22-7:2003 Figure 2

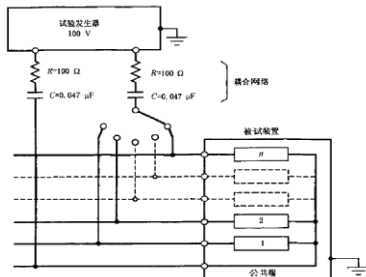
Test Connection Schematic Drawing

Figure 1: differential mode test



Standard Schematic Diagram

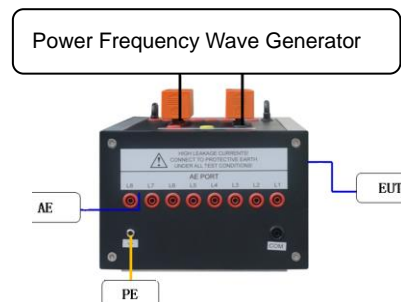
Figure 2: Example for B-Level differential mode test



As per GB/T 14598.19---2007/IEC 60255-22-7:2003 Figure 3

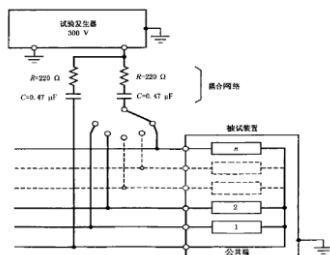
Test Connection Schematic Drawing

Figure 2: common mode test



Standard Schematic Diagram

Figure 3: Example for common mode test



As per GB/T 14598.19---2007/IEC 60255-22-7:2003 Figure 4



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