



Coupling Network

CN 14698-19

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

Features

- > Two coupling method: common-mode and differential-mode
- > Replaceable RC coupling modules enable testing in different coupling modes

Introduction

The CN14598-19 coupling network complies with IEC 60255-22-7, used to evaluate whether the equipment under test (EUT) operates correctly when energized at its rated frequency and subjected to short-duration, conducted common-mode and differential-mode power-frequency disturbances applied to its DC status inputs.

Its powerful coupling capability meets the specified performance requirements of the entire test process, ensuring test repeatability. The coupling performance and transmission rate remain stable, while its compact design enables easy transportation and convenient operation.

Application Areas



Technical
Parameters

Coupling Waveform	Power-frequency voltage waveform
Duration	≥ 10 s
Coupling Method	RC coupling (common-mode and differential-mode)
Coupling Components	100 Ω / 0.047 μF, accuracy ±5%
	100 Ω / 0.1 μF, accuracy ±5%
	220 Ω / 0.47 μF, accuracy ±5%
RC Module	External
Working 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	Cable length between the EUT and the coupling network < 2 m.

General
Parameters

Enclosure Material	Aluminum
Dimension	250*200*133 mm
Weight	2.8 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

HV Cable, Grounding Wire, Shorting-circuit Wire, Coupling Module, User Manual

Standard Schematic

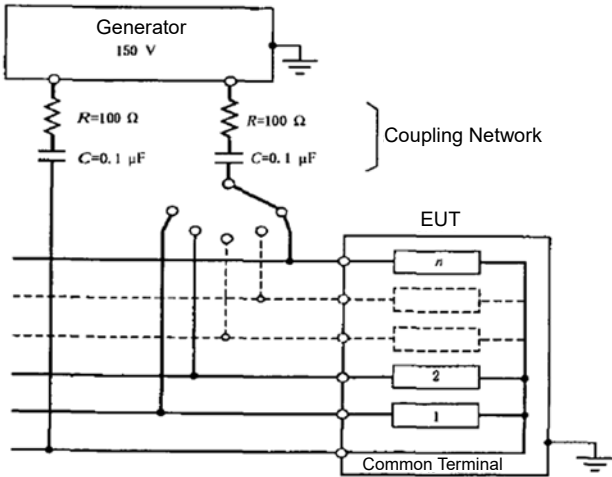


Figure 1 Example for A-level differential mode test
As per “IEC 60255-22-7:2003 Figure 2”

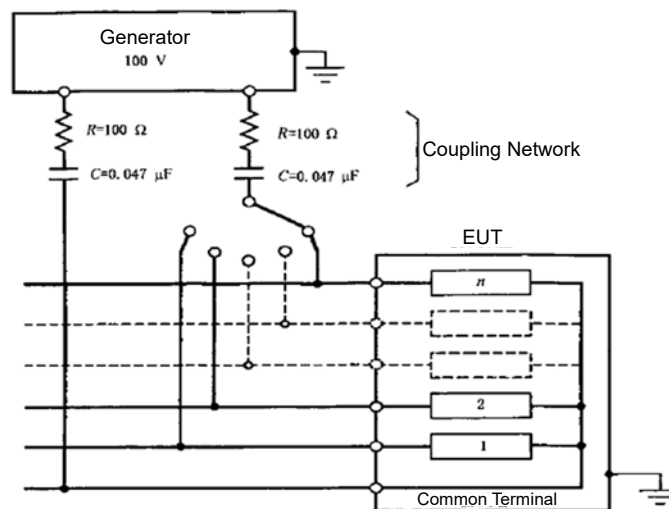


Figure 2 Example for B-level differential mode test
As per "IEC 60255-22-7:2003 Figure 3"

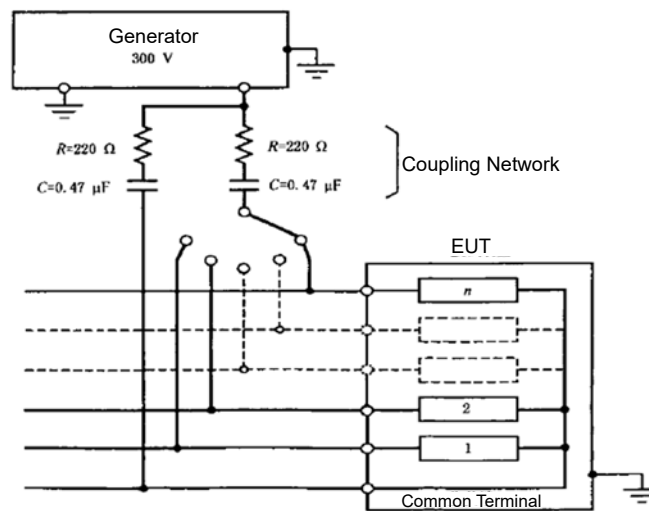


Figure 2 Example for common-mode test
As per "IEC 60255-22-7:2003 Figure 4"

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