



Conducted Immunity Tester

CST 20150D

- IEC 61000-4-39
- IEC 60601-1-2
- IEC 61000-4-6

Features

- > All-in-one design, built-in signal generator and power meter
- > Remote control via PC software
- > IEC 61000-4-39 compliant
- > IEC 61000-4-6 compliant

Introduction

The conducted immunity tester CST 20150D is designed according to IEC 61000-4-39 for short-range radiated field immunity tests with frequencies from 9kHz ~26 MHz. The test equipment consists of a signal generator, a wideband power amplifier (Class A) and a power meter with high dynamic range integrated in one device. All test equipment is controlled by PC software, with functions such as saving test results.

Application Areas



Technical
Parameters

RF Signal Generators	
Frequency range	9 kHz-3 GHz
Frequency Resolution	0.23 Hz
Frequency-Temperature Stability	±0.5 ppm
Harmonic wave	≤-30 dBc
Non-harmonic	≤-50 dBc
Output power range	-120 dBm~0 dBm (9 kHz ~ 500 kHz); -120 dBm~+10 dBm (500 kHz ~ 3 GHz)
Power Accuracy	±1.0 dB
Resolution	0.1 dB
Internal Modulation Source (LF)	sinusoid 0.1 Hz~500 kHz; square wave 0.1 Hz~20 kHz; Triangle wave/sawtooth wave 0.1 Hz~100 kHz
Amplitude Modulation (AM)	Modulation depth 0%~100%; Modulation rate 20 Hz ~1 MHz
Frequency Modulation (FM)	Resolution: 5 MHz; Modulation rate: 20 Hz~1 MHz
Phase Modulation (ΦM)	Modulation phase 0°~360°; 20 Hz~1 MHz
Pulse Period	200 ns ~ 160 s
Pulse Width	100 ns ~ 85 s
Output Interface	N (Female)
VSWR	<1.5:1
Power Amplifier	
Frequency Range	9 kHz ~ 230 MHz
Gain	52.3 dB±1 dB (170 W)
1 dB gain	51.8 dB±1 dB (150W)
VSWR	<1.5:1
Output impedance	50 Ω
Output interface	N (Female)
Power Meter (built-in 2-channel power meter)	
Frequency range	9 kHz ~ 6 GHz
Test level	-50 dBm ~ +20 dBm
Accuracy	±0.2 dB
Input interface	N (Female)
VSWR	<1.1:1

General Parameters

Operating Power Range	220 V ±10%, 50 Hz /60 Hz±5%
Maximum Power Consumption	500 W
Dimension	6U chassis L * W * H: 450*280*620mm
Weight	Approx.20 kg
Ambient Temperature	15°C~35°C
Relative Humidity	45%~75%
Atmospheric Pressure	86 kPa~106 kPa

Standard Accessories

Power cord, User manual, USB cable, RF cable, Flat ground cable, Fuses.

Optional Accessories

1	<p>HFRA 5164</p>	Radiating rings; Frequency: 10kHz-120MHz, Diameter: 100m, number of turns: 3
2	<p>NFCN 1356</p>	Matching networks; Frequency: 13.56 MHz, Impedance: 50Ω, The maximum power is 15W, the field strength is 15A/m; BNC interface
3	<p>LoopHolder 5164-39</p>	Fixing Bracket: FESP 5134-1
4	<p>FESP 5134-1</p>	Magnetic field probe, Frequency:10 kHz - 400 MHz, Diameter: 40mm, number of turns 1
5	<p>FESP 5132</p>	Radiating ring frequency: DC-150KHz, Diameter: 120m, Number of turns: 20
6	<p>FESP 5134-40</p>	Magnetic field probe, Frequency:5Hz - 250KHz, Diameter: 40mm, number of turns: 51
7	<p>LoopHolder50</p>	Fixing Bracket: LoopHolder50
8	<p>Attenuators</p>	Coaxial fixed attenuator; Attenuation value: 3 dB, Frequency range: DC-6 GHz, Maximum power of 150 W

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