



Radio Frequency Conducted Anti-interference Testing System

CST 10200B

- ISO 11452-4:2020
- GB/T 33014.4:2016
- IEC 61000-4-6:2023
- GB/T 17626.6:2017

Features

- > Integrated design with built-in integrated signal generator, RF power amplifier, and RF power meter
- > Supports high current injection (with current injection clamp), optional current monitoring probe, supports closed-loop testing method
- > USB interface, used for remote control of PC
- > Support conducted anti-interference test
- > Design signal generator, RF power amplifier, and RF power meter as independent output ports (for metering)
- > RF power amplifiers have temperature VSWR, Power monitoring, over limit protection

Introduction

CST 10200B is an automatic testing system designed according to the standards ISO 11452-4 and IEC 61000-4-6. The built-in high dynamic range power meter is used to monitor the test level values in the testing system. Formed a complete testing system with EMC-S software, improving the scalability and efficiency of the system. After installing the testing software, corresponding tests can be executed immediately, and the test results can be saved, printed, and shared internally within the company.

Application Areas



Technical Parameters

RF Signal Generator	
Frequency Range	9 kHz ~ 3 GHz
frequency Resolution	0.23 Hz
Frequency Temperature Stability	±0.5 ppm
Harmonic	≤-30 dBc
Non-harmonics	≤-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)	Sine wave:0.1 Hz ~ 500 kHz Square wave:0.1 Hz ~ 20 kHz Triangular wave/sawtooth wave:0.1 Hz ~ 100 kHz
Amplitude Modulation (AM)	Modulation depth: 0% ~ 100% Modulation rate: 1 Hz ~ 1 MHz
Frequency Modulation (FM)	Maximum frequency offset: 5 MHz Modulation rate: 1 Hz ~ 1 MHz
Phase Modulation (ΦM)	Modulation phase 0° ~ 360°; 1 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	10 kHz ~ 500 MHz
1 dB Gain	53 dB ± 2 dB (200 W)
VSWR	<1.5:1
Output Impedance	50 Ω
Output Interface	N (female)
Power Meter (built-in 3-channel power meter)	
Frequency Range	9 kHz ~ 3 GHz
Level	-60 dBm ~ +20 dBm
Accuracy	±0.2 dB
Input Interface	N (female)
VSWR	<1.1:1

General Parameters

Working Power	AC 220 V ±10%,50/60Hz
Maximum Power Consumption	500 W
Dimension	19 inches/22U 600 mm (W) * 1250 mm (H) * 800 mm (D)
Weight	Approx. 45 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

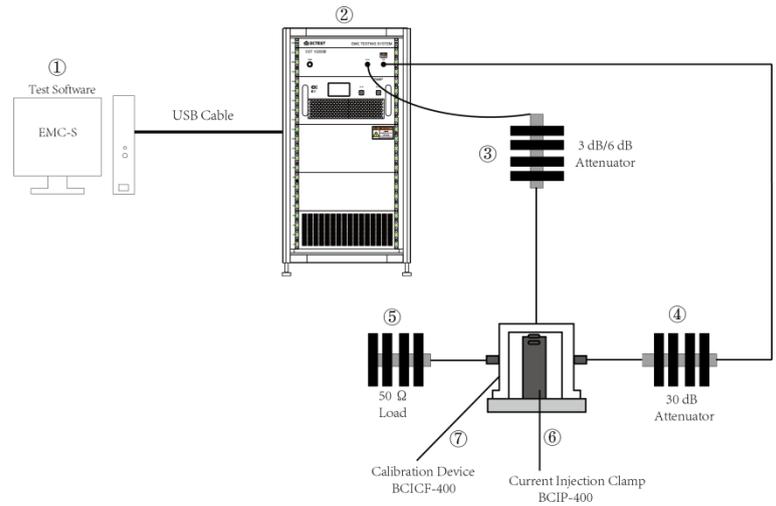
Power Cord, Fuse, Attenuator, USB Cable, Flat Grounding Wire, RF Cable, Calibration Report, Product Warranty, Operation Instructions
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Optional Accessories

ISO 11452-4 BCI Test Item Equipment Accessories			
1	Testing Software EMC-S BCI	Supports Windows 10 system, designed for CST series RF conducted immunity PC testing software, supports USB communication mode, and enables remote calibration and testing operations.	
2	Attenuator AT200-3dB-1G-NF-NF-A	Attenuation: 3 dB, Power: 200 W	
3	Attenuator AT200-30dB-4G-NF-NF-A	Attenuation: 30 dB, Power: 200 W	
4	50 Ω Load TF80	Impedance: 50 Ω, Power: 80 W	
5	Current Injection Clamp BCIP-400	Frequency: 4 kHz ~ 400 MHz Power: 100 W (continuous for 30 minutes) 150 W (lasting for 15 minutes) 200 W (lasting for 5 minutes) Interface format: N type Inner diameter: 40 mm Outer diameter: 127 mm Height: 70 mm	
6	Calibration Device BCICF-400	Frequency: DC ~ 400 MHz Characteristic impedance: 50 Ω Voltage standing wave ratio: ≤ 3.5 Inner length: 80 mm Inner width: 127 mm Internal height: 135 mm	
7	Current Probe TWCM-500	Frequency: 1 kHz ~ 500 MHz Inner diameter: 40 mm Outer diameter: 127 mm Height: 40 mm RF current: 2 A Pulse current: 100 A	

System Configuration

- ① Test software EMC-S
- ② Host CST 10200B
- ③ Attenuator AT200-3dB-1G-NF-NF-A
- ④ Attenuator AT200-30dB-4G-NF-NF-A
- ⑤ 50 Ω Load TF80
- ⑥ Current injection clamp BCIP-400
- ⑦ Calibration device BCICF-400



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