

High Frequency Damped Sinusoidal Transient Generator DOS-CS116(15A)

- MIL-STD-461
- GJB 151

Features

> 5.7inch touch screen front panel operation
> In compliance with CS116 test in MIL-STD-461E/F/G
> Output frequency 10 kHz, 100 kHz, 3 MHz, 10 MHz, 30 MHz, 100 MHz
> Output current up to15 A
> Ethernet RJ45 port for PC remote control and testing report print

Introduction

The DOS-CS116(15A) High Frequency Damped Sinusoidal Transient Generator is specially designed to meet CS116 test in MIL-STD-461E/F/G. This generator can produce 6 types of damped sine(cosine) waves from 10 kHz to 100 MHz, used for all interconnection cables and power cables conduction susceptibility tests of aircrafts, space and surface system. This equipment is applicable for warships and subsystem tests as well as.

The device can be controlled by Corelab PC control software, which makes the test simple and convenient.

Application Areas



Technical Parameters

Test Frequency (±2%)	10 kHz,100 kHz, 3 MHz,10 MHz, 30 MHz,100 MHz
Test Current (Loop Impedance 100 ohm)	≥0.15 A @10 kHz ≥1.5 A @100 kHz ≥15 A @3 MHz ≥15 A @10 MHz ≥15 A @30 MHz ≥4.5 A @100 MHz
Output Impedance	<100 Ω
Damped Factor (Q)	15 ±5
Output Port	Type N

General Parameters

Display Screen	5.7 inches TFT touch screen
Working Power	AC 220 V, ± 10%, 50 Hz / 60 Hz
Fuse	6 A
Power Consumption	200 W
Communication Port	Ethernet (RJ45)
Dimension	6U rack/ 450 (W) × 280 (H) × 620 (D) mm
Weight	26.5 kg
Ambient Temperature	15℃ ~ 35℃
Relative Humidity	35% ~ 85%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cables, User Manual, Grounding Wire, Fuses

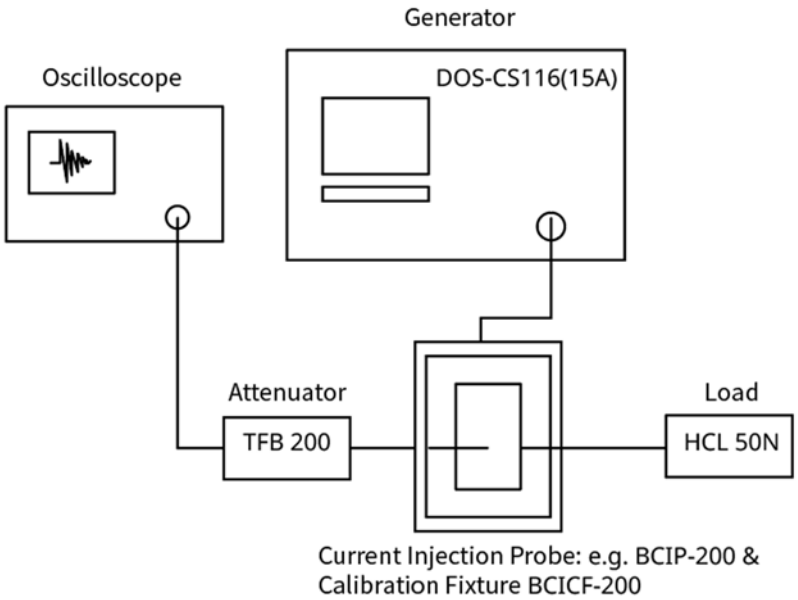
Optional Accessories

1	Current Injection Probe	Model: BCIP-200 Frequency: 4 kHz ~ 200 MHz	
2	Calibration Fixture	Model: BCICF-200 Frequency: DC ~ 200 MHz Characteristic impedance: 50 Ω	
3	High-Voltage Coaxial Load	Model: HCL 50N Frequency: DC ~ 200 MHz Impedance: 50 Ω Power: 5 W	
4	Attenuator	Model: TFB 200 Frequency: DC ~ 400 MHz Input impedance: 50 Ω Voltage attenuation ratio: 200:1 Attenuation: 46 dB ±1 dB @ DC ~ 100 MHz: 46 dB ±3 dB @100 MHz ~ 400 MHz	

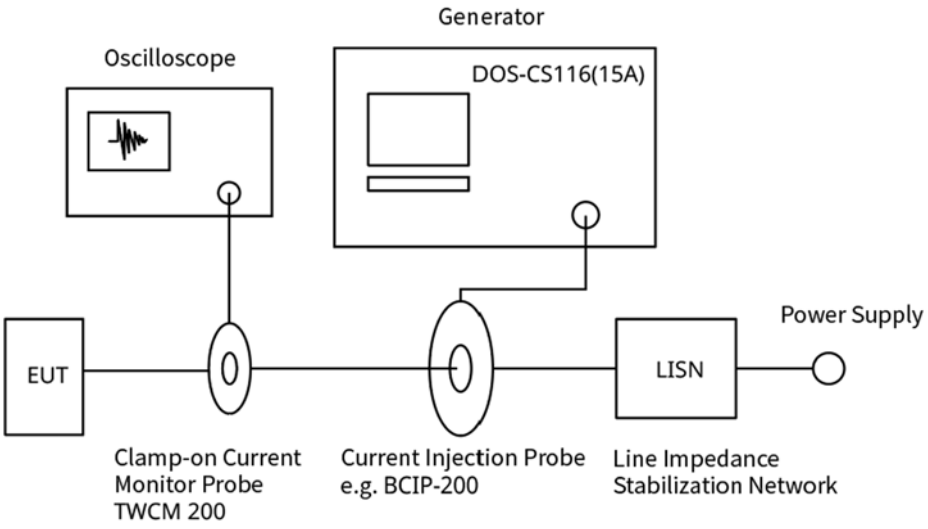
Optional Accessories

5	Broadband Current Monitoring Clamp	Model: TWCM-200 Frequency: 1 kHz ~ 200 MHz Inner diameter: 40 mm	
6	Artificial Mains Networks	Model: LISN Jxx series Frequency: 9 kHz ~ 30 MHz Test voltage: 250 V AC, 50 Hz/60 Hz 135 V AC, 400 Hz 500 V DC Test current: choose according to EUT's current	
7	Artificial Mains Networks	Model: LISN MLxxHVS series Frequency: 9 kHz ~ 30 MHz Test voltage: 380 V AC, 50 Hz/60 Hz 1000 V DC Test current: choose according to EUT's current	
8	Control Software	Model: Corelab Support Windows 7/8/10 /11; support Ethernet Interface; support sequence test, easy to operate, generate & export test report.	
Notes: The generator can match with our current injection Probes (e.g. BCIP-200/-500, BCICF-200/-500) and FCC's probes.			

Calibration Connection



Test Connection



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