



Electrostatic Discharge Simulator

EDS 20HBM

- ANSI/ESDA/JEDEC JS-001
- ANSI/ESD STM5.1
- JESP22-A114F
- MIL-STD-883G
- GJB 548B

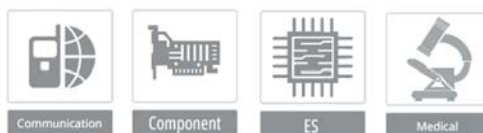
Features

- > 5.7-inch color touch screen front panel operation
- > Max. test voltage is 20 kV
- > Max. frequency rate is 5 Hz
- > Built-in fault alarm system, easy to operate

Introduction

The EDS 20HBM electrostatic discharge simulator is specially designed in accordance with the characteristics and requirements of electrostatic discharge immunity tests for the Human Body Model. It can perform ESD immunity testing on semiconductor devices such as LEDs, transistors and ICs. Its charge-discharge circuit is designed based on the ANSI/ESDA/JEDEC JS-001-2017 standard, fully complying with the strictest ESD voltage levels specified in the above standard, with a max. output voltage of 20 kV.

Application Areas



Technical Parameters

Test Voltage	8 kV ~ 20 kV ($\pm 5\%$), 1 V step
RC Parameters	100 pF/1,500 Ω
Polarity	+, -, + than -
Pulse Count	1 ~ 999
Repetition Frequency	0.1 Hz ~ 5 Hz
Repetition Interval	1s ~ 10 s
Trigger Mode	Auto, manual, external trigger
Short-circuit current calibration parameters	
Peak Current(I_{ps})	5.33 A $\pm$ 10% @8 kV 13.35 A $\pm$ 10% @20 kV
Rise Time	2 ns ~ 10 ns (10% I_{ps} ~ 90% I_{ps})
Duration Time	130 ns ~ 170 ns (I_{ps} ~ 36.8% I_{ps})
Ringing Amplitude	< 15% peak current
500 Ω load current calibration parameters	
Peak Current I_{pr}	3.68 A $\pm$ 10% @8 kV 9.2 A $\pm$ 10% @20 kV
Rise Time	5 ns ~ 25 ns (10% I_{pr} ~ 90% I_{pr})

General Parameters

Display	5.7-inch color screen
Working Power	AC 100 V ~ 240 V($\pm 10\%$), 50/60 Hz
Fuse	6 A
Max. Power Consumption	400 W
Working Status Indication	LED indication and LCD display in front panel
Failure Detection	LCD display in front panel and stop work when failure occurs
Dimensions	4U rack, 207 (W) *160 (H) *310 (D) mm
Weight	Approx. 18 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

User manual, Test Cable, Power Cord, Grounding Wire, Fuse

Optional Accessories

1	Software CoreLab	Compatible with Windows 7/8/10/11. It features user-friendly operation with an elegant and intuitive interface.	
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SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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