

Electrostatic Discharge Generator EDS 20HBM



In compliance with

> ANSI/JEDEC JS-001-2017

Introduction

EDS 20HBM electrostatic discharge generator is specially designed for the characteristics and requirements of electrostatic discharge immunity test of human body model (HBM), which can test the electrostatic immunity of semiconductor devices such as LED, transistor and IC. According to the design of charging and discharging circuit of ANSI/JEDEC JS-001-2017 standard, it fully meets the requirements of the most severe electrostatic voltage in the above standards, and the maximum voltage can reach 20KV.

Features

- > 5.7-inch colorful touch screen;
- > Output voltage can reach 20 kV;
- > Maximum frequency can reach 5 Hz;
- > System has built-in fault alarm function, easy to operate.

Application Areas

- > Communication
- > Semiconductor device
- > Material
- > Electrical and electronic equipment

Technical Parameters	
Standard	ANSI/ESDA/JEDEC JS-001-2017
Voltage	8 kV ~ 20 kV $\pm 5\%$; Resolution 1 V
RC parameter	100 pF/1500 Ω
Polarity	Positive 、 Negative 、 Positive/ Negative
Pulse count	1 ~ 999
Repetition frequency	0.1 Hz ~ 5 Hz
Trigger mode	Automatic/Manual/External
Short current parameters	
Peak current	5.33 A $\pm 10\%$ @8 kV
Ips	13.35 A $\pm 10\%$ @20 kV
Rise time	2 ns ~ 10 ns(10%Ips ~ 90%Ips)
Pulse width	130 ns ~ 170 ns(Ips ~ 38.6%Ips)
Ringing amplitude	<15%Ips
Load 500 Ω current parameters	
Peak current	3.68 A $\pm 10\%$ @8 kV
Ipr	9.2 A $\pm 10\%$ @20 kV
Rise time	5 ns ~ 25 ns(10%Ipr ~ 90%Ipr)

Standard Accessories	
Test lines; Power cord; Fuse; Ground wire; Report; User manual;	

General Parameters	
Display screen	5.7-inch TFT
Power Supply	AC 110/220 V, $\pm 10\%$,50 Hz/65 Hz(AC 220 V in China)
Fuse	6 A
Power	400 W
Failure monitoring	When it fails, the front panel LCD will display and interrupt the instrument.
Working indication	LED indication ,LCD display
Dimension	8U
Weight	Approx. 18 kg
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Relative humidity	45 % ~ 75 %
Atmospheric pressure	86 kPa ~ 106 kPa

Optiona Accessories	
PC : AutoLab	
The PC control software CoreLab supports Windows 7, Windows 8 and Windows 10. It is easy to use, and the user interface is beautiful and intuitive. Various operating functions and standard test library enable users to easily complete custom test programs. Test the equipment and configure it automatically to help users generate test reports flexibly.	



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