

ELECTROSTATIC DISCHARGE SIMULATOR

MODEL **ESS-6002/6008** *for Semiconductors*

NEW

Features

The ESS-6000 series ESD simulators are testers specifically designed to carry out ESD sensitivity testing of semiconductor devices to standards such as MIL-STD-883, EIAJ ED-4701 and others. Included are the Human Body Model (HBM) and Machine Model (MM) probes. As a DUT interface, select either Free Type Probe Stand where virtually any package type can be connected by means of a pair of miniature test leads or Semi-automatic Precision Type Probe Stand providing automatic and precise pin-to-pin feeding with a minimum 0.01mm resolution.

- 8kV maximum output <ESS-6008>
- 10V minimum output (1V step) <ESS-6002>
- Free Board plus a pair of miniature test leads meeting many different kinds of device packages <Free Board Type>
- Narrow pitch DUT can be tested in semi-automatic manner <Semi-automatic Precision Type>
- Each probe has a coaxial interface with an external measuring instrument.
- An external trigger input and output terminals are provided.



ESS-6008&18-00076A

Compliant standards

Human Body Model (HBM)	Machine Model (MM)
AEC-Q100-002-Rev.D Jul.2003	AEC-Q100-003-REV-E Jul.2003
ESDA ANSI/EOS/ESD-STM5.1-2001	ESDA ANSI/ESD STM5.2-1999
IEC61340-3-1Ed.1.0 2002	IEC61340-3-2 Ed.1.0-2002
IEC60749-26 Ed.1.0 2003	IEC60749-27 Ed.1.0 2003
JEDEC JESD22-A114D March 2006	JEDEC JESD22-A115A Oct.1997
JEITA EIAJ ED-4701/300 Aug.2001 Test Method304	JEITA EIAJ ED-4701/300 Aug.2001
MIL-STD-883G Method 3015.7 Mar.1989	

<Main unit> (Model: ESS-6002/6008)

- **Output voltage:** <ESS-6008> 100V~8.0 kV+/-10% (10V step) <ESS-6002>10V~2.0kV(+/-10% 1V step)
- **Polarity:** Positive & Negative
- **Discharge Repetition:** 0.3~99s (0.1s step to 10s, 1s step over 10s)
- **Number of discharge:** 1~99/cont
- **Output voltage ramping:** 1~99/cont
- **Dimensions and weight:** (W) 340 x (H) 199 x (D) 300 mm, (projection excluded), approx. 6 kg.

<Free Type Probe Stand > (MODEL: 18-00075A)

- **Dimensions and weight (stand):** (W) 200 x (H) 330 x (D) 290 mm, approx. 1.5 kg.
- **Dimensions and weight (free board) :**(W) 100 x (H) 27 x (D) 180 mm, (projection excluded), approx. 0.2 kg.
- **Vise gap:** 110 mm
- **Other:** V-shape block (Polyoxynethylene) included

<Semi-automatic Precision Type Probe Stand> (MODEL: 18-00076A)

The precision mechanism offers a 0.01 mm movement resolution for the probe electrodes (hot and ground pins), enabling ESD pulses to be exactly applied to each target pins in turn.

- **Dimensions and weight (stand):** (W) 250 x (H) 400 x (D) 300 mm, approx. 7 kg.
- **Maximum DUT size:** 40 mm x 40 cm, minimum lead pitch: 0.4 mm
- **X axis:** Manual, by dovetail groove and feed screw mechanism, Distance: 20mm
- **Y axis:** Motor drive (maximum speed 13 mm/s) by stepping motor & ball screw mechanism
Distance: 40mm, Y resolution: 0.01 mm
- **θ axis:** Manual, 360°
- **Z axis:** Manual, 20 mm, hand press (spring built-in)
- **Origin adjustment:** Manual

Specifications are subject to change without notice.
Noise Laboratory Co., Ltd. 2006/06