



ESD Test Platform for Aerospace

EDS 20H-ST

■ ECSS-E-ST-20-07C

— Features

- > The breakdown voltage of the spark gap is 6,000 V
- > The peak current is 30 A
- > The current pulse width is 30 ns

— Introduction

The EDS 20H-ST is an aerospace ESD test platform that complies with the requirements of standard ECSS-E-ST-20-07C and is applied to carry out electrostatic susceptibility testing for aerospace equipment.

The interaction between spacecraft and space environment causes the spacecraft surface to accumulate charges up to several kilovolts, which may trigger abrupt electrostatic discharge and bring risks of electronic system malfunction. Electrostatic susceptibility testing of space equipment constitutes an essential part of EMC test items.

— Application Areas



Aerospace

Technical Parameters

Spark-gap Breakdown Voltage	6,000 V ($\pm 30\%$)
Peak Current	30 A ($\pm 20\%$)
Current Pulse Width	30 ns ($\pm 20\%$)
Polarity	+, -
RC Module	Automatic identification with LCD display
Temperature & Humidity	Built-in temperature and humidity meter with recording and protection functions
Pulse Repetition Frequency	Single / 0.5 Hz, 1 Hz, 2 Hz
Trigger Mode	Manual & Automatic
Counter	1 ~ 9,999
RC Parameters	50 pF / 47 Ω
Test Mode	Complies with ECSS E-ST-20-07C

General Parameters

Dimension	320(W) mm * 220(H) mm * 620(D) mm
Weight	Approx. 5 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Working Mode	As an accessory, it is used in conjunction with EDS 20H or EDS 16H.

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