



Spike Voltage Simulator

VSS 181

- GJB 181-86
- GJB 181A
- RTCA/DO-160E

Features

- > 5.7" color touch screen front panel operation
- > Built-in multifunctional testing modules
- > Support test sequence function
- > Ethernet RJ45 interface for remote PC control
- > Print test reports

Introduction

The VSS 181 Spike Voltage Simulator is designed to meet the test requirements of GJB 181-86, GJB 181A and RTCA/DO-160E.

The VSS 181 is capable of generating up to 100 polarity alternating voltage spike signals to DUT in one second, the pulse interval can be set randomly from 0.5 s to 99.9 s and peak voltage can be set from 30 V to 600 V, which can meet the requirement of spike signal sensitivity test on airplane power line. Polarity can be set to only positive, only negative, positive first then negative, negative first and then positive. The output impedance can be arbitrarily selected among 10 Ω , 30 Ω and 50 Ω . DC coupling and protective network are built in.

Application Areas



Technical Parameters

Pulse Voltage	30 V ~ 600 V(±5%)
Polarity	Positive, negative, alternative
Rise time	≤5 μs
Source Impedance	10 Ω, 30 Ω, 50 Ω
Pulse Duration	10 ~ 50 μs
Repetition Times	1 ~ 9,999
Voltage & Current Measurement	Measured values displayed on TFT screen
Protection Current	Freely configurable from 1 A ~ 20 A

General Parameters

Display Screen	5.7-inch TFT Touch Screen
Operating Power Supply	AC 110 V/220 V ±10%, 50 Hz/ 60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Dimensions	4 U rack
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa
Weight	Approx. 30 kg

Optional Accessories

1	Test Software	Model: CoreLab > Compatible with Windows 7/8/10/11 > Easy to operate with a clean, intuitive UI. > Built-in standard test library supports quick custom test programming.	
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