DC~145 GHz GSG Probe

Model: VST-145G-GSG-XXX

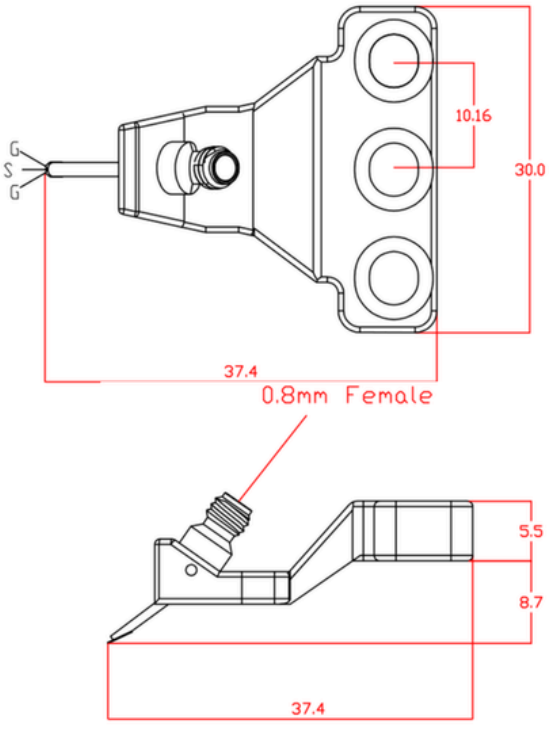
Product Overview

The Vinstronics VST-145G-GSG-XXX is a GSG RF probe designed for single-ended high-frequency characterization up to 145 GHz. Featuring a 50 Ω Ground-Signal-Ground configuration, configurable pitch from 100 µm to 1250 µm, and a 0.8 mm female RF interface, it supports precision probing of RF devices, wafers, packages, and high-frequency test structures.



Key Features

- **DC to 145 GHz Operation** for high-frequency RF and mmWave characterization.
- **50 Ω GSG Configuration** for single-ended S-parameter measurements.
- **Configurable 100–1250 µm Pitch** for a wide range of RF pad layouts.
- **Precision Probe-Station Integration** for wafer, device, package, and test-structure characterization.



Typical Applications

- High-frequency RF and mmWave device characterization
- Wafer-level RF and microwave device testing
- RFIC / MMIC characterization
- High-frequency semiconductor and device evaluation
- Advanced package and interconnect characterization
- On-wafer S-parameter measurements
- Research and development for high-frequency components and test structures

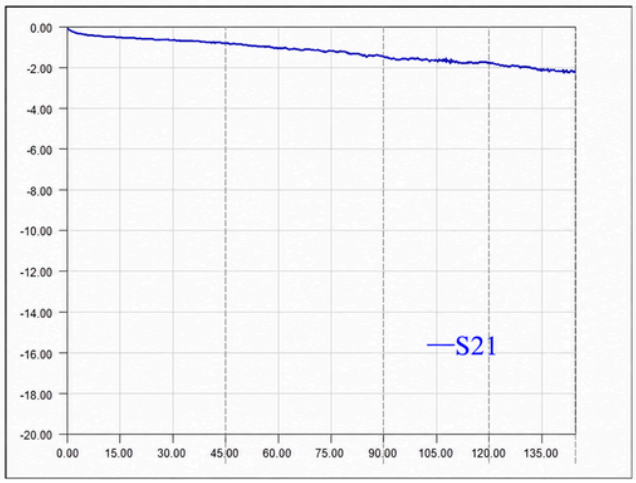
Electrical Specifications

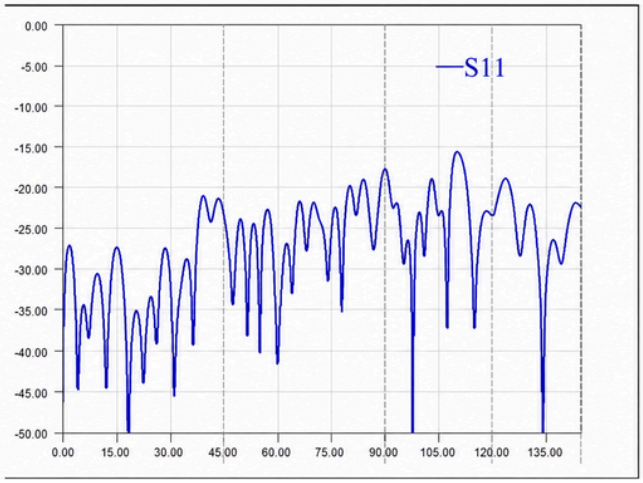
Frequency Range	DC–145 GHz
Insertion Loss	< 3.5 dB
Return Loss	> 10 dB
Impedance	50 ± 1 Ω
DC Current	≤ 1 A
DC Voltage	≤ 100 V
RF Power	≤ 5 W

Mechanical Characteristics

Connector	0.8 mm Female
Tip Configuration	GSG
Connector Angle	45°
Pitch Range	100–1250 µm
Standard Pitch Step	50 µm
Pitch Step, 100–250 µm Range	25 µm
Pitch Step, 300–1250 µm Range	50 µm

Typical Performance: DC~145 GHz GSG Probe 100 µm Pitch





Ordering Information

Model format

VST-[Frequency]-[Tip Configuration]-[Pitch]

Where:

- **Frequency** = maximum operating frequency, e.g. 40/67/110/145G
- **Tip Configuration** = GS, SG, GSG, GSSG, GSGSG, SS, etc.
- **Pitch** = nominal probe-tip pitch in micrometers

Example:

VST-67G-GSSG-150

(67 GHz GSSG probe with 150 µm pitch)

Custom pitch configurations are available within the supported range.

Recommended Accessories

- Calibration substrates (SOLT / LRM compatible)
- RF cables and adapters
- Probe positioners and probe stations
- Cleaning kits and spare tips

Handling & Usage Notes

- Always perform calibration at the probe tip for best accuracy
- Avoid excessive force to preserve tip alignment
- Keep contact surfaces clean to maintain low contact resistance
- Store probes in protective cases when not in use

Contact & Support

For quotations, technical support, or customization requests:

Vinstronics

Email: sales@vinstronics.com

Website: www.vinstronics.com/rf-probe/