DC~110GHz GS Probe

Model:VST-110G-GS-XXX（XXX=Pitch range:μm)

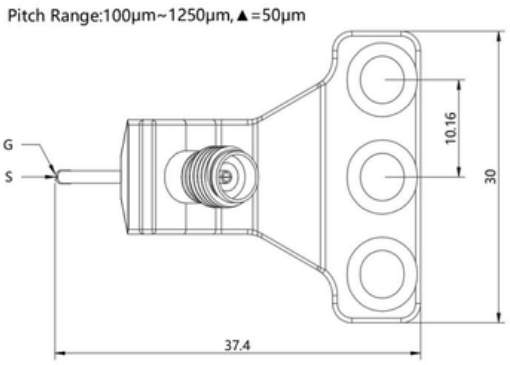


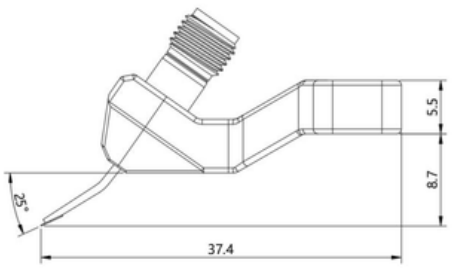
Product Overview

The Vinstronics VST-110G-GS is a high-performance mmWave probe designed for precise measurements up to 110 GHz. Built for advanced wafer-level characterization and high-speed device validation, this GS probe delivers excellent impedance consistency, low insertion loss, and stable contact performance for accurate and repeatable signal acquisition.

Key Features

- 110 GHz Performance: Precision GS probing from DC to 110 GHz.
- Low Loss Design: Optimized structure for reduced insertion loss.
- Low Reflection: Advanced tip geometry improves return loss.
- Stable Contact: Repeatable contact resistance for reliable testing.
- Fine Pitch Options: Available from 50 μm to 500 μm.
- Compact Form Factor: Suitable for dense probe station setups.
- System Compatibility: Works with high-performance VNAs and test platforms.





Typical Applications

- Wafer-level mmWave device testing up to 110 GHz.
- High-speed IC, chiplet, and interconnect characterization.
- Fine-pitch pad probing in advanced R&D environments.
- 5G/6G, semiconductor, and next-generation wireless research.

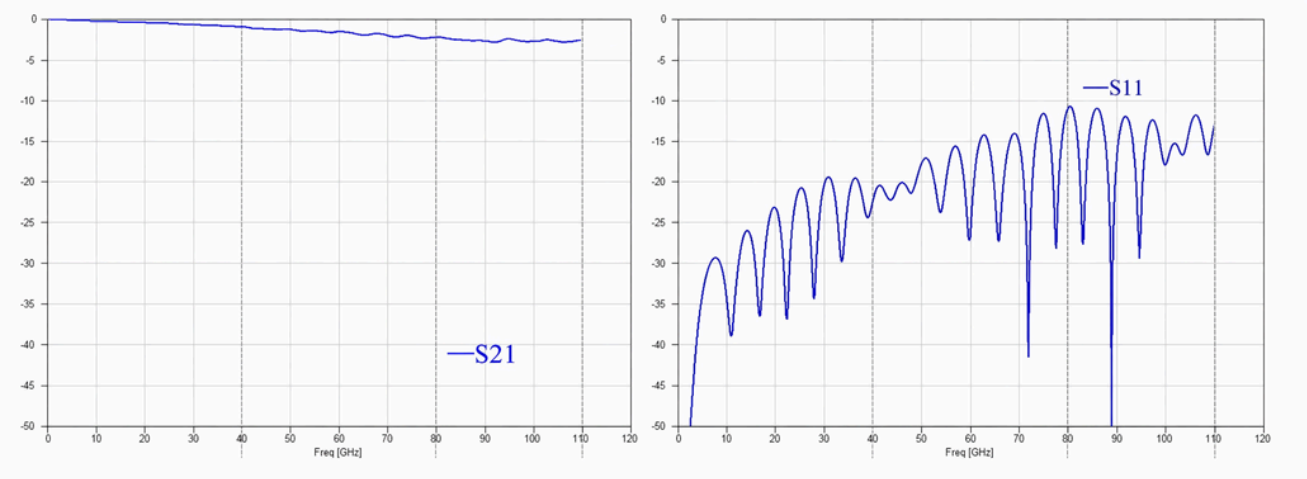
Typical Electrical Characteristics

Frequency range	DC-110GHz
Insertion loss	Spec:<3.0dB
Return loss	Spec:>12dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	1.00mm Female
Tip configurations	GS/SG
Connector angle	45-degree
Pitch range	100μm-1250μm or customized
Standard pitch step	50μm
Tip size	
from 100 um to 250 um	25μm
from 300 um to 1250 um	50μm

Typical Electrical Characteristics: DC~110 GHz GS Probe 150 micron pitch



Ordering Information

Model format

VST-67G-GS-XXX

Where:

- 67G = frequency range (DC–67 GHz)
- GS = tip configuration
- XXX = pad pitch in microns

Example:

VST-67G-GS-150

(67 GHz GS probe with 150 µm pitch)

Custom versions are available upon request (special pitch, angle, or connector).

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/