DC~110GHz GSG Probe

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

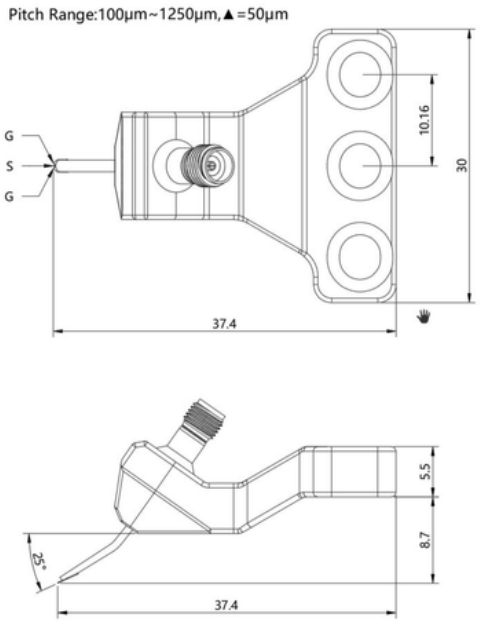
Product Overview

The Vinstronics VST-110G-GSG is a high-performance probe designed for precision W-Band measurements (DC to 110 GHz). Optimized for 6G development and automotive radar, it offers precise impedance control and high return loss stability, ensuring seamless integration with professional probe stations and W-Band instrumentation.



Key Features

- W-Band Excellence: DC–110 GHz wideband performance.
- Reflection Control: Stable 50 Ω impedance for mmWave applications.
- High Precision: GSG configuration for enhanced signal integrity.
- Micro-Pitch: 100 μm – 1250 μm (Optimized for high-density pads).
- Durability: Specialized tip technology for extended operating life.
- W-Band ISS: Fully compatible with W-Band calibration substrates.



Typical Applications

- W-Band / mmWave device testing (6G and beyond).
- Automotive Radar (77–81 GHz) characterization.
- MMIC and photonic device research.
- High-speed serial link and PAM4 evaluation.
- Quantum computing and cryogenic testing.

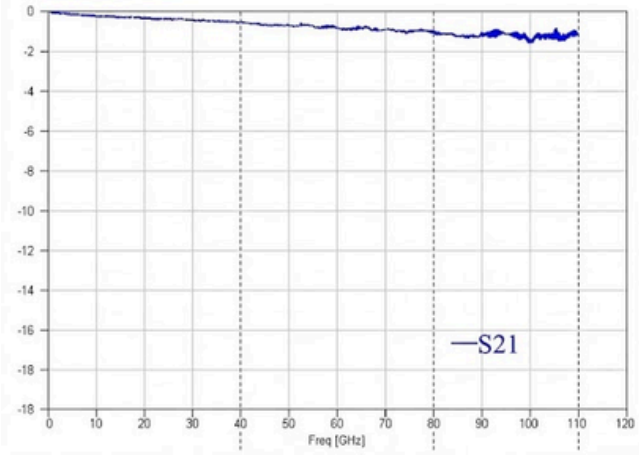
Typical Electrical Characteristics

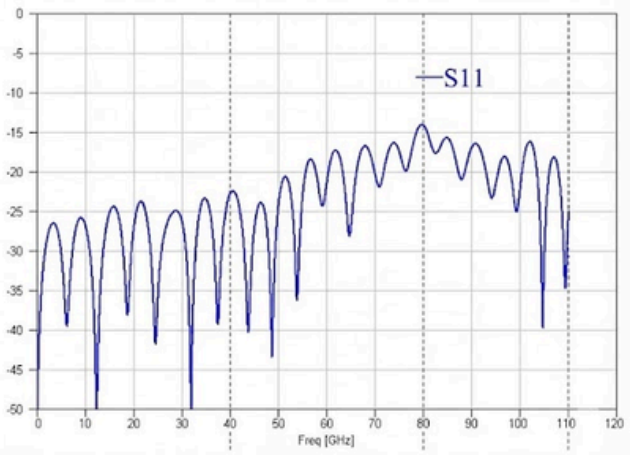
Frequency range	DC-110GHz
Insertion loss	Spec:<2.2dB
Return loss	Spec:>12dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	1.00mm Female
Tip configurations	GSG
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 GSG Probe 150 micron pitch





Ordering Information

Model format

VST-110G-GSG-XXX

Where:

- 110G = frequency range (DC–110 GHz)
- GSG = tip configuration
- XXX = pad pitch in microns

Example:

VST-110G-GSG-150

(110 GHz GSG 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/