DC~40 GHz GS Probe

Model:VST-40G-GS-XXX（XXX=Pitch range:μm)

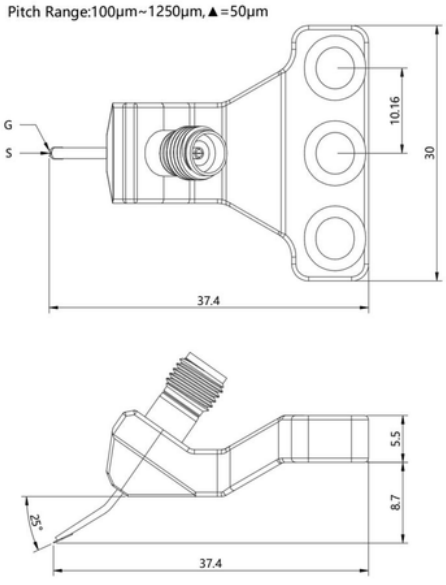
Product Overview

The Vinstronics VST-40G-GS is a precision wafer-level RF probe designed for versatile measurements from DC to 40 GHz. Its GS (Ground-Signal) configuration is ideal for testing asymmetric pad layouts and space-constrained environments. Engineered for exceptional repeatability, it provides a stable 50 Ω impedance and low insertion loss, making it a reliable choice for standard RF device characterization.



Key Features

- Flexible Probing: GS configuration tailored for non-symmetric pad designs.
- Wideband Range: Reliable performance from DC up to 40 GHz.
- Controlled Impedance: Stable 50 Ω path with minimized parasitic inductance.
- Precision Pitch: Available from 100 μm to 1250 μm (Customizable down to 40 μm).
- High Longevity: Robust tip design ensuring consistent contact over thousands of cycles.
- Universal Fit: Compatible with all major probe stations and standard ISS.



Typical Applications

- General-purpose RF / Microwave device testing.
- Asymmetric pad layout characterization.
- Passive component evaluation (Filters, Inductors).
- RF front-end and PA/LNA circuit debug.

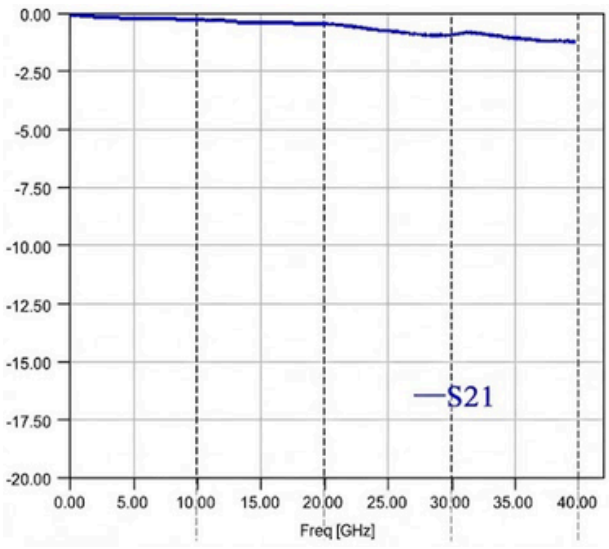
Typical Electrical Characteristics

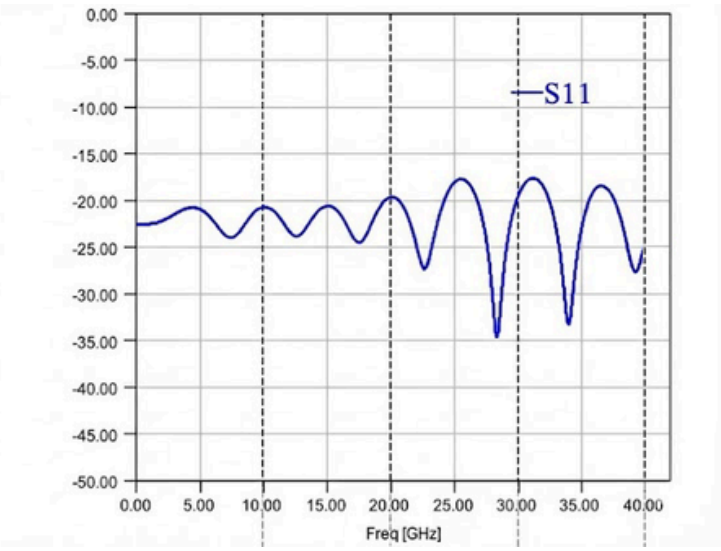
Frequency range	DC-40GHz
Insertion loss	Spec:<2.0dB
Return loss	Spec:>12dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm 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~40 GHz GS Probe 150 micron pitch





Ordering Information

Model format

VST-40G-GS-XXX

Where:

- 40G = frequency range (DC–40 GHz)
- GS = tip configuration
- XXX = pad pitch in microns

Example:

VST-40G-GS-150

(40 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/