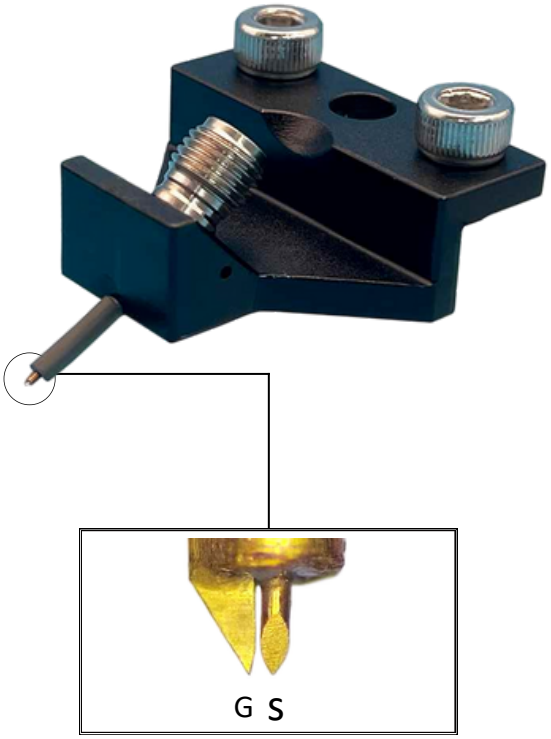
DC~40GHz GS Probe

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

Product Overview

The VST-40G-GS-XXX-LF is a high-precision RF probe designed for single-ended measurements from DC to 40 GHz. As part of the AQUILA Series, it features a specialized 10μm tip width optimized for high-density layouts and space-constrained probing environments. With a Ground-Signal (GS) footprint and a high-performance 2.92mm (K) female connector, this probe provides a reliable, low-loss signal path for wafer-level testing of devices with asymmetrical or restricted pad arrangements.



Key Features

- Tip: 10μm width tip; supports pads ≥ 30μm.
- Interface: 2.92mm (K) female; DC to 40 GHz.
- Design: Compact GS footprint for limited-space environments.
- Visibility: Slim profile for precise optical alignment.
- Mechanical: Stable contact resistance and minimal scrub marks.

Typical Applications

- Discrete RF component characterization (diodes, transistors).
- Asymmetrical pad layout probing and failure analysis.
- 5G Sub-6GHz device modeling and R&D.

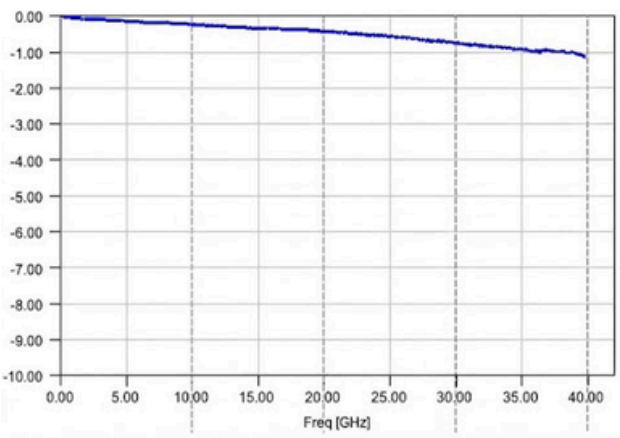
Typical Electrical Characteristics

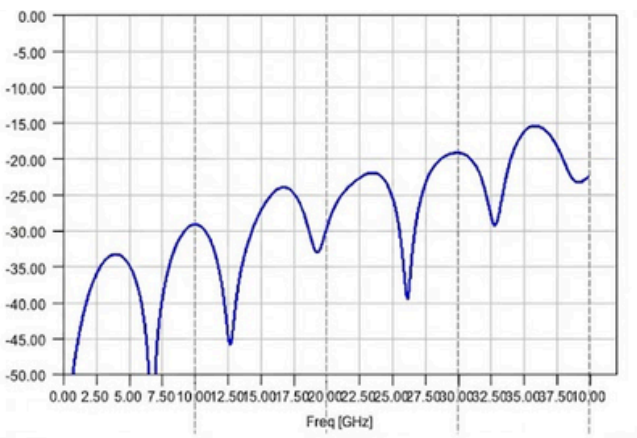
Frequency range	DC-40GHz
Insertion loss	Spec:<2.0dB
Return loss	Spec:>12dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm Female
Tip configurations	GS/SG
Connector angle	45-degree
Pitch range	100µm-1250µm or customized
Standard pitch step	25µm
Tip size	
from 100 um to 250 um	10µm
from 300 um to 1250 um	10µm

Typical Electrical Characteristics: DC~40 GHz GS Probe-LF





Ordering Information

Model format

VST-40G-GS-XXX-LF

Where:

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

Example:VST-40G-GS-150-LF (40 GHz AQUILA Series 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/