DC~40GHz GSG Probe

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

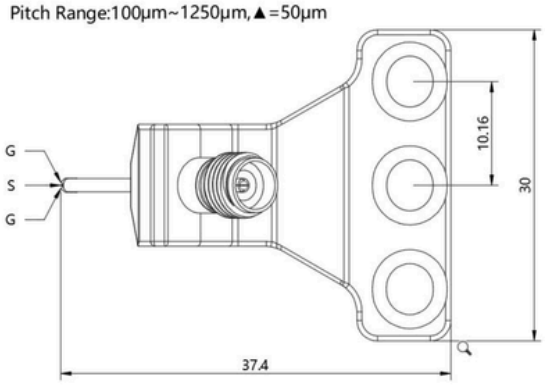
Product Overview

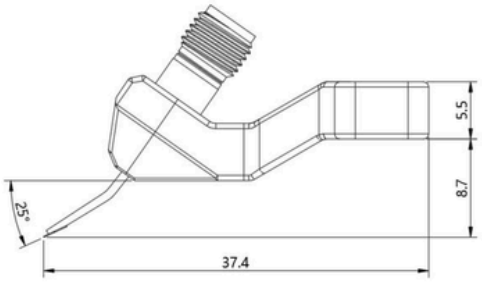
The Vinstronics VST-40G-GSG is a precision wafer-level RF probe designed for high-accuracy measurements from DC to 40 GHz. Engineered for repeatability and durability, it provides excellent impedance stability, low insertion loss, and reliable contact performance across a wide range of semiconductor and RF test environments.



Key Features

- Performance: DC–40 GHz wideband coverage.
- Impedance: Stable 50 Ω with minimized parasitics.
- Signal Integrity: GSG configuration for superior isolation.
- Pitch Range: 100 μm – 1250 μm (Customizable to 40 μm).
- Reliability: Robust tip design for long operating life.
- Compatibility: Works with major probe stations and standard ISS.





Typical Applications

- Wafer-level RF / Microwave device testing.
- IC and MMIC characterization (PA / LNA).
- High-frequency interconnect and connector evaluation.
- Research, academic, and quantum system development.
- Failure analysis and engineering debug.

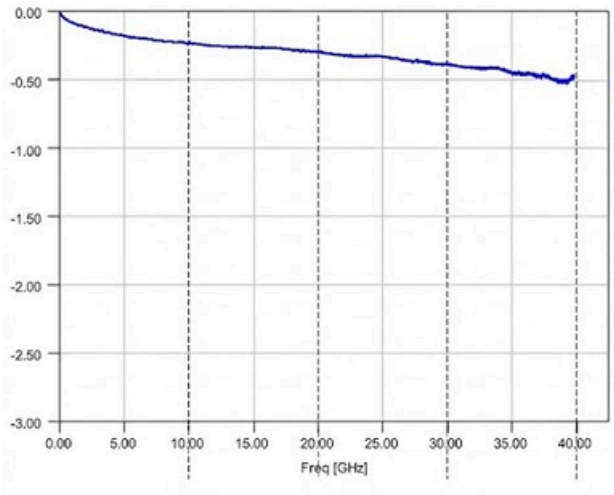
Typical Electrical Characteristics

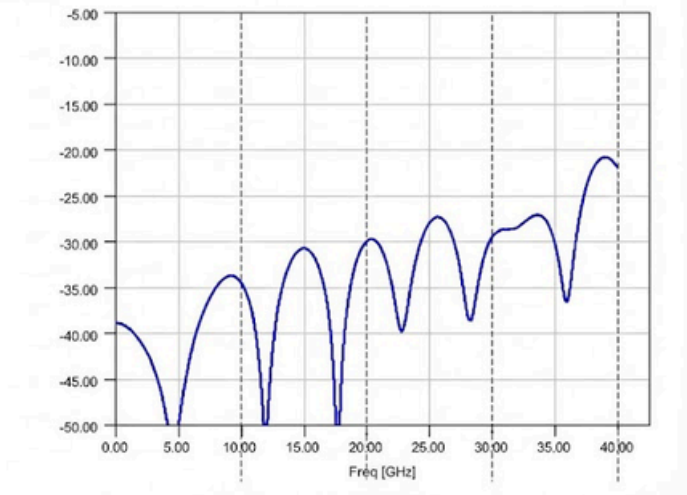
Frequency range	DC-40GHz
Insertion loss	Spec:<0.6dB
Return loss	Spec:>18dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm 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~40 GHz GSG Probe 150 micron pitch





Ordering Information

Model format

VST-40G-GSG-XXX

Where:

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

Example:

VST-40G-GSG-150

(40 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/