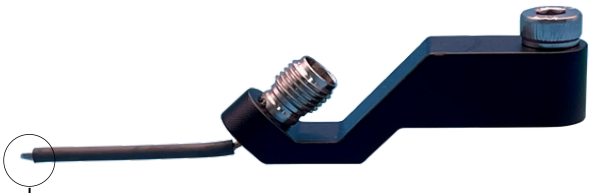
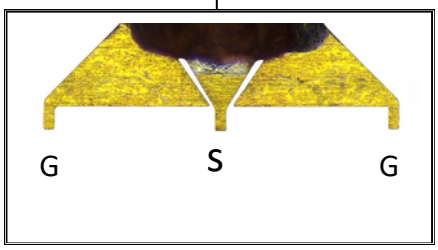
DC~40GHz GSG Probe

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

Product Overview

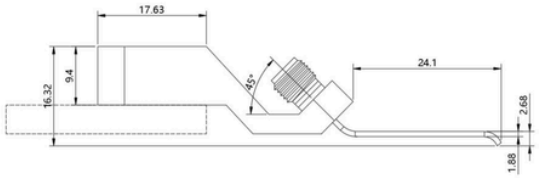
The Vinstronics VST-40G-GSG-SH is a high-performance RF probe featuring a specialized slim-body "Single-hole" architecture. Engineered for DC to 40 GHz measurements, its ultra-compact footprint allows for high-density probing in constrained environments where standard probe bodies face physical interference.

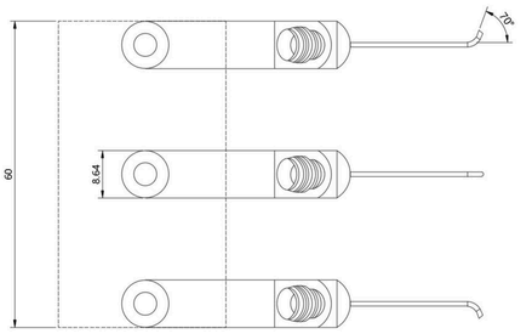




Key Features

- Interference Avoidance: Slim-profile design avoids contact with adjacent probes, fixtures, and cabling.
- High-Density Integration: Optimized mechanical structure allows for mounting up to three probes on a single base for dense pad testing.
- Superior Accessibility: Easily reaches die-edge pads or pads obstructed by other components.
- Customizable Landing: Adjustable needle angles available to meet specific test topography requirements.
- Wideband Performance: Maintains stable 50 Ω signal integrity from DC to 40 GHz.





Typical Applications

- High-density wafer-level pad testing.
- Obstructed or edge-of-die pad characterization.
- Space-constrained RF front-end and module debug.
- Multi-port simultaneous signal injection.

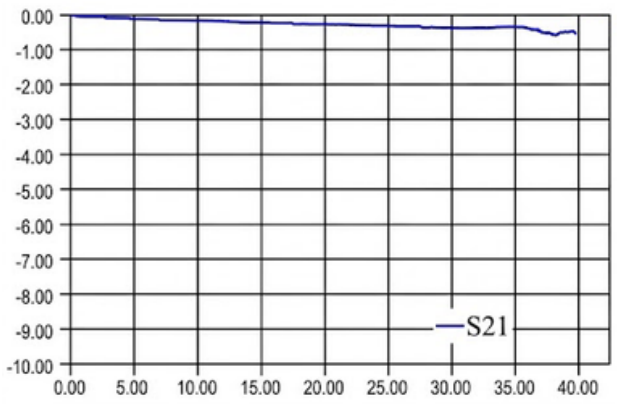
Typical Electrical Characteristics

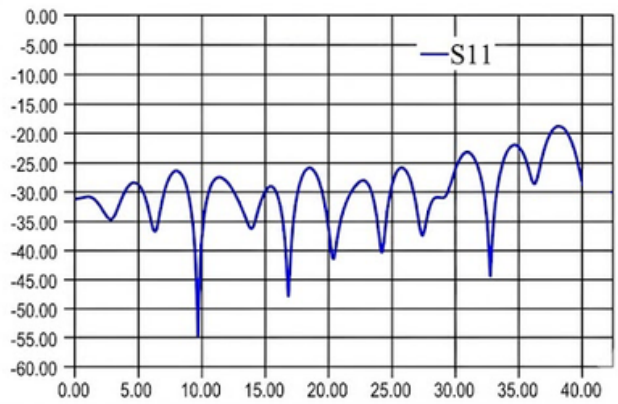
Frequency range	DC-40GHz
Insertion loss	Spec:<0.6dB
Return loss	Spec:>18dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

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-SH





Ordering Information

Model format

VST-40G-GSG-XXX-SH

Where:

- 40G = frequency range (DC–40 GHz)
- GSG = tip configuration (Ground-Signal-Ground)
- XXX = pad pitch in microns
- SH = Single-hole body design for high-density probing

Example:VST-40G-GSG-150-SH (40 GHz GSG Single-hole 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/