DC~110GHz GSGSG Probe

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

Product Overview



The VST-110G-GSGSG-XXX-LF is a top-performance multi-port probe for the DC to 110 GHz frequency spectrum. The GSGSG configuration ensures superior inter-channel isolation, critical for accurate crosstalk measurements at W-band frequencies. Featuring the AQUILA Series 10μm tips and 1.0mm female connectors, this probe is engineered for the highest level of signal integrity in multi-signal mmWave environments.

Key Features

- Extreme Isolation: Optimized ground-signal-ground shielding up to 110 GHz.
- Tip Precision: Five 10μm width tips; supports sub-30μm pads.
- Interface: Dual precision 1.0mm female connectors.
- Signal Fidelity: Minimized parasitic effects for ultra-broadband measurements.
- Visibility: Compact head design for precise W-band alignment.

Typical Applications

- Multi-port W-band RFIC testing (e.g., 94 GHz imaging/radar).
- High-fidelity crosstalk analysis in ultra-dense IC designs.
- Advanced signal integrity verification for 6G transceivers.

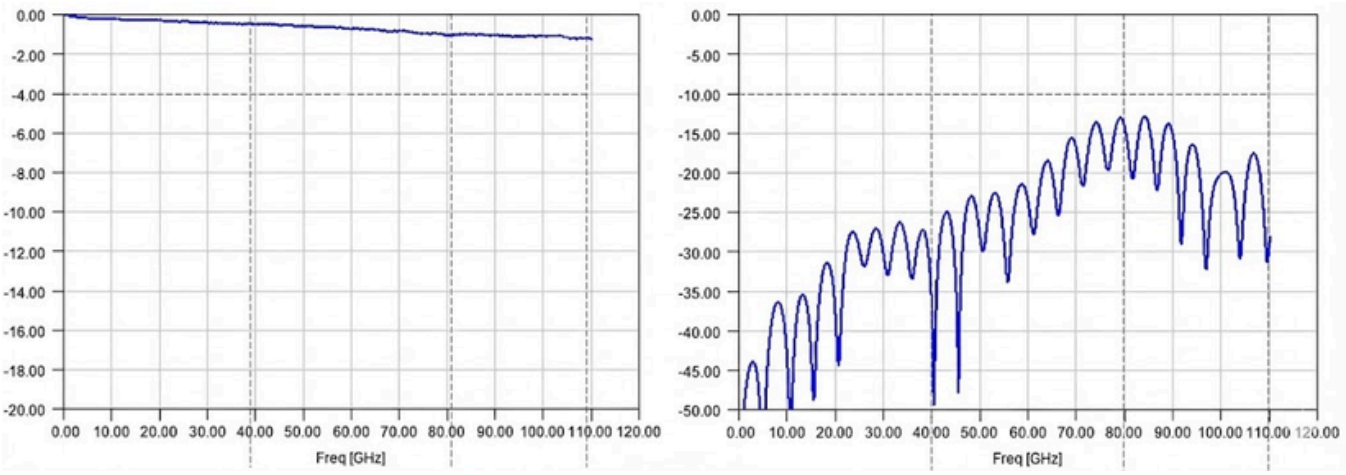
Typical Electrical Characteristics

Frequency range	DC-110GHz
Insertion loss	Spec:<3.5dB
Return loss	Spec:>10dB
Impedance	100Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	1.00mm Female
Tip configurations	GSGSG
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~110 GHz GSGSG Probe-LF



Ordering Information

Model format

VST-110G-GSGSG-XXX-LF

Where:

- 110G = frequency range (DC–110 GHz)
- GSGSG = tip configuration
- XXX = pad pitch in microns
- LF = AQUILA Series

Example:VST-110G-GSGSG-150-LF (110 GHz AQUILA Series GSGSG 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/