DC~110GHz GSSG Probe

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

Product Overview



The VST-110G-GSSG-XXX-LF is a high-performance differential probe designed for ultra-broadband applications from DC to 110 GHz. Utilizing the AQUILA Series 10μm tip architecture, it addresses the extreme precision required for W-band differential probing. Equipped with dual precision 1.0mm female connectors, this GSSG probe provides a transparent signal path for the most demanding 6G research and automotive radar characterization.

Key Features

- W-Band Capability: Optimized differential path for 110 GHz performance.
- Precision Tip: Four 10μm width tips for ultra-fine pad layouts.
- Advanced Interface: Dual 1.0mm female connectors.
- Symmetry: Excellent mode conversion loss and phase matching.
- Contact: Stable resistance and minimal impact on pad metallurgy.

Typical Applications

- 6G research and 77/79 GHz Automotive Radar testing.
- Ultra-high-speed SoC differential interface verification.
- W-band balanced device modeling and S-parameter extraction.

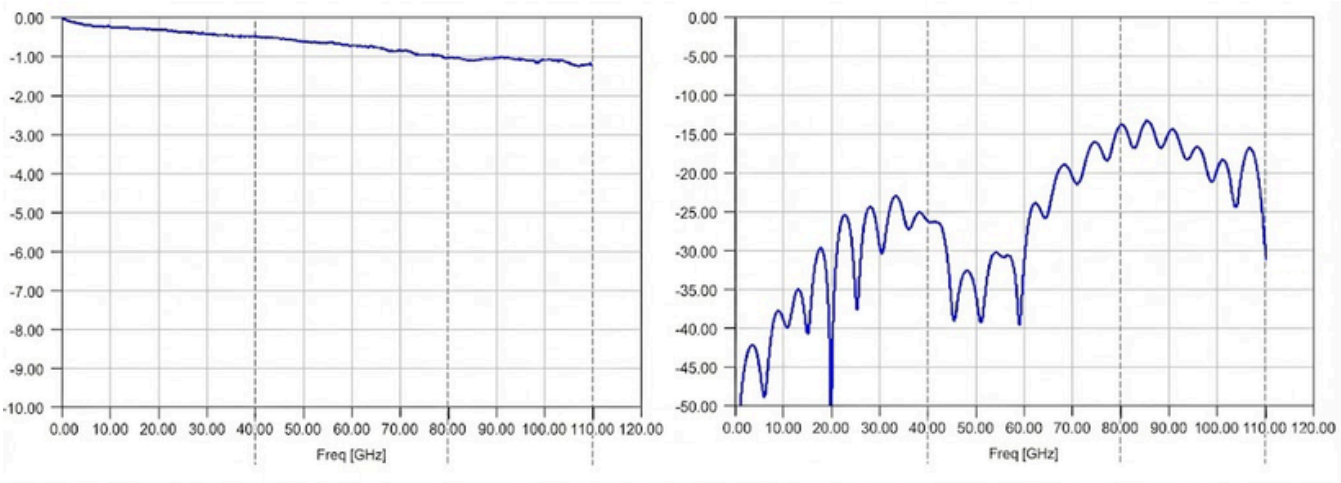
Typical Electrical Characteristics

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	GSSG
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 GSSG Probe-LF



Ordering Information

Model format

VST-110G-GSSG-XXX-LF

Where:

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

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