DC~40GHz GSGSG Probe

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

Product Overview

The VST-40G-GSGSG-XXX-LF is a specialized five-tip RF probe for dual-signal or differential testing up to 40 GHz. The Ground-Signal-Ground-Signal-Ground (GSGSG) configuration provides superior electromagnetic isolation between signal paths. Utilizing the AQUILA Series 10μm tip architecture and 2.92mm (K) female interfaces, this probe is ideal for high-precision crosstalk analysis and multi-port measurements on dense semiconductor layouts.



Key Features

- Isolation: GSGSG layout for minimized inter-channel crosstalk.
- Tip: Five 10μm width tips for sub-30μm pad contact.
- Interface: Dual 2.92mm (K) female connectors.
- Precision: Optimized internal shielding for high signal transparency.
- Stability: Reliable repeatability with minimal, uniform scrub marks.

Typical Applications

- Dual-channel RFIC testing and crosstalk characterization.
- Four-port S-parameter measurements on-wafer.
- High-isolation differential signal probing.

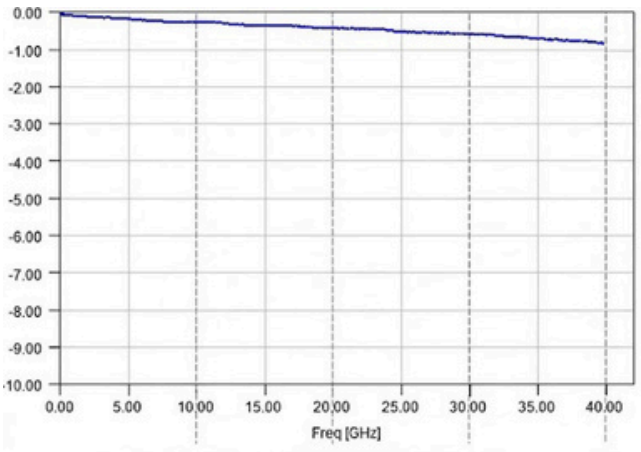
Typical Electrical Characteristics

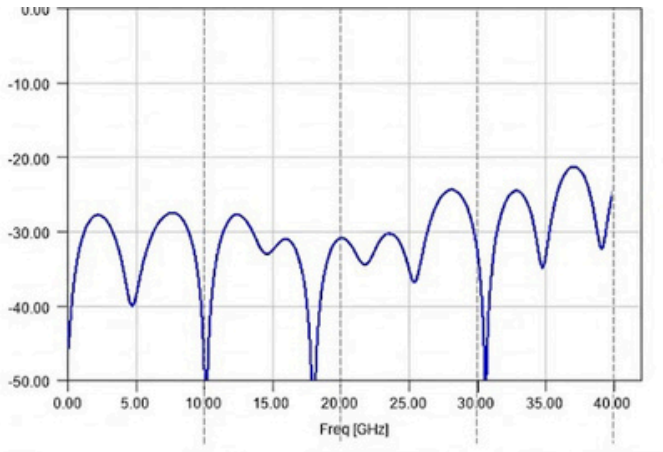
Frequency range	DC-40GHz
Insertion loss	Spec:<2.0dB
Return loss	Spec:>12dB
Impedance	100Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm 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~40 GHz GSGSG Probe-LF





Ordering Information

Model format

VST-40G-GSGSG-XXX-LF

Where:

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

Example:VST-40G-GSGSG-150-LF (40 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/