DC~40GHz GSSG Probe

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

Product Overview



The VST-40G-GSSG-XXX-LF is a high-performance differential RF probe designed for balanced signal testing from DC to 40 GHz. Part of the AQUILA Series, it features four precision 10μm tips in a Ground-Signal-Signal-Ground configuration. Equipped with high-quality 2.92mm (K) female connectors, this probe is optimized for high-speed digital characterization and differential RFIC testing, ensuring excellent phase matching and minimal mode conversion.

Key Features

- Tip Array: Four 10μm width tips; supports fine-pitch (XXX) pads.
- Interface: Dual 2.92mm (K) female connectors; DC to 40 GHz.
- Signal Integrity: Precision phase matching and high CMRR.
- Visibility: Slim head design for accurate multi-tip alignment.
- Mechanical: Consistent contact pressure across all four tips.

Typical Applications

- High-speed SerDes and differential I/O testing (e.g., PCIe Gen 4/5).
- Differential amplifier and balanced filter characterization.
- Signal Integrity (SI) analysis for 40 Gbps communication links.

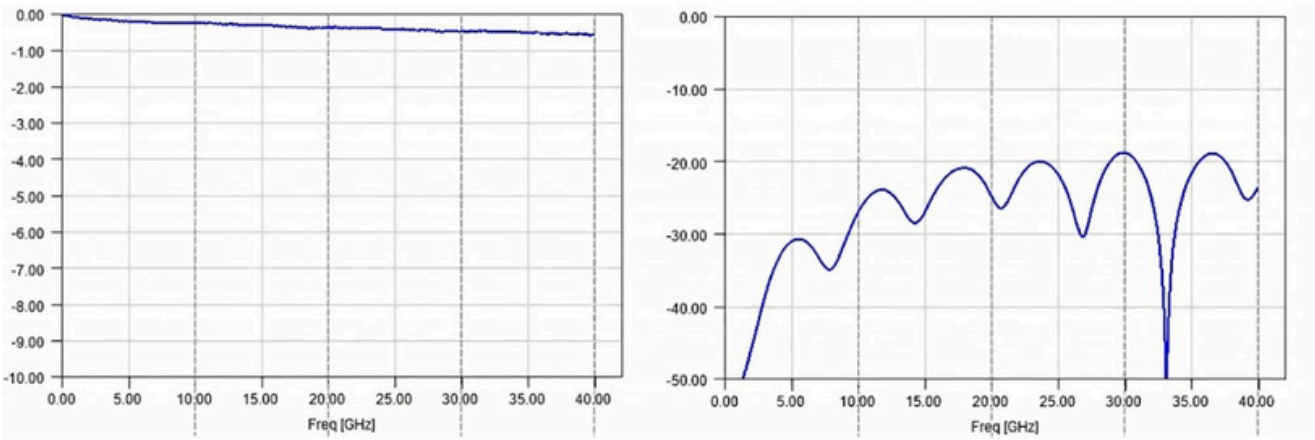
Typical Electrical Characteristics

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	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~40 GHz GSSG Probe-LF



Ordering Information

Model format

VST-40G-GSSG-XXX-LF

Where:

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

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