DC~67 GHz GSGSG Probe

Model: VST-67G-GSGSG-XXX

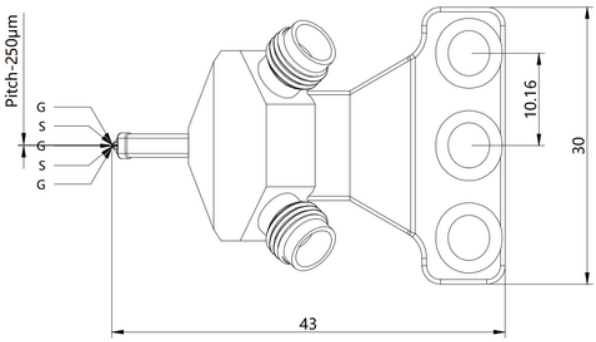
Product Overview

The Vinstronics VST-67G-GSGSG-XXX is a high-performance mmWave differential probe designed for precision measurements up to 67 GHz. With its advanced GSGSG configuration, it offers superior port-to-port isolation and minimal crosstalk, making it the ideal solution for 112 Gbps PAM4 SerDes characterization and 5G/6G signal integrity analysis.



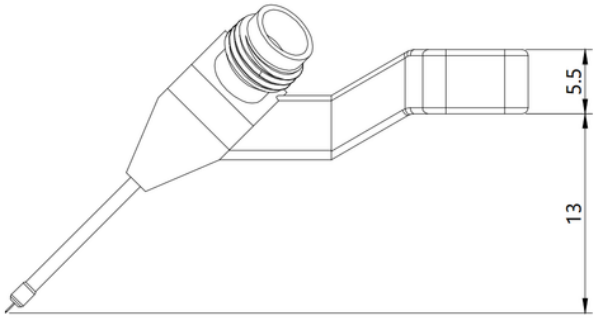
Key Features

- **Broadband Performance:** Optimized for precise measurements from DC to **67 GHz**.
- **GSGSG Configuration:** Dual-signal paths with interleaved ground shielding for superior isolation and minimal crosstalk.
- **Exceptional Signal Integrity:** Features low insertion loss **(<2.0 dB)** and high return loss (>12 dB) to ensure accurate data acquisition.
- **Precision XXXµm Pitch:** Fixed-pitch design with an optimized tip size tailored for high-density differential pads.
- **Reliable Connectivity:** Equipped with a **45-degree** 1.85 mm Female connector for stable integration with standard probe stations.
- **High Power Handling:** Rated for **5W RF power** and **1A DC current** to support diverse testing requirements.



Typical Applications

- **112 Gbps PAM4** and high-speed SerDes characterization.
- **5G/6G mmWave** differential component and beamforming IC testing.
- **Differential RFIC/MMIC** validation and transceiver (TRX) evaluation.
- **Signal Integrity Analysis** for high-speed interconnects and advanced packaging.
- **Wafer-Level R&D** and automated semiconductor production testing.



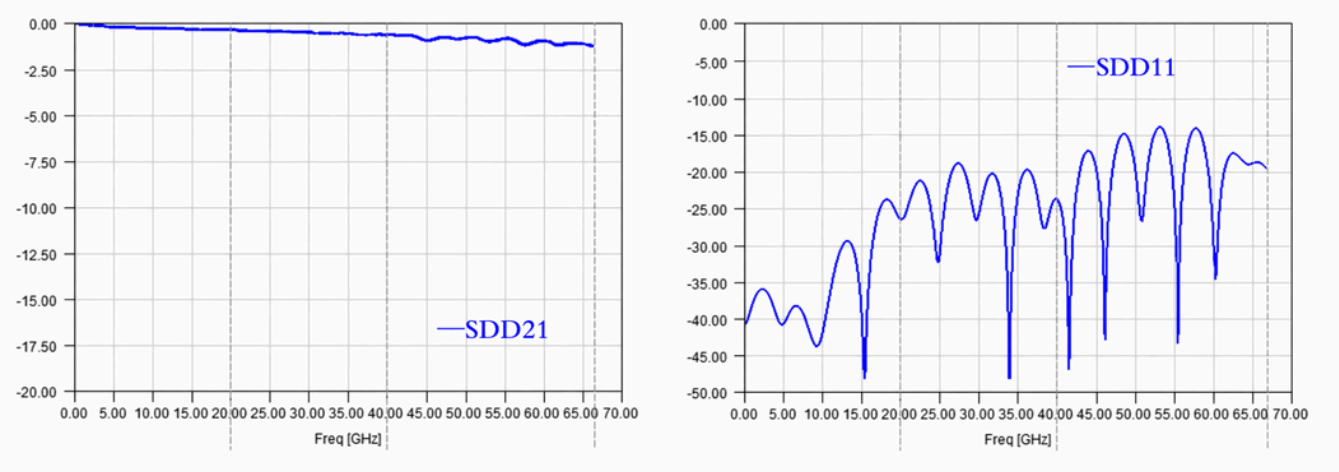
Electrical Specifications

Frequency range	DC-67 GHz
Insertion loss	Spec:<2.0 dB
Return loss	Spec:>12 dB
Impedance	100 Ω
DC current	≤1 A
DC voltage	≤100 V
RF power	≤5 W

Mechanical Characteristics

Connector	1.85 mm Female
Tip configurations	GSGSG
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 Performance: DC~67 GHz GSGSG Probe



Ordering Information

Model format

VST-[Frequency]-[Tip Configuration]-[Pitch]

Where:

- **Frequency** = maximum operating frequency, e.g. 40G, 67G, 110G
- **Tip Configuration** = GS, SG, GSG, GSSG, GSGSG, SS, etc.
- **Pitch** = nominal probe-tip pitch in micrometers

Example:

VST-67G-GSSG-150

(67 GHz 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/