DC~145 GHz GSGSG Probe

Model: VST-145G-GSGSG-XXX

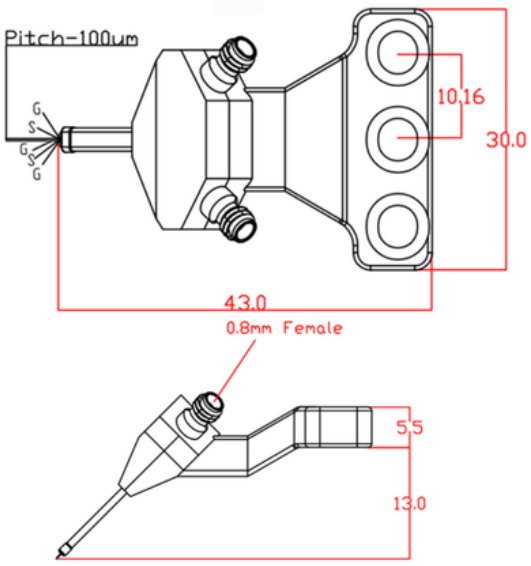
Product Overview

The Vinstronics VST-145G-GSGSG-XXX is a differential RF probe designed for high-frequency characterization up to 145 GHz. Featuring a 100 Ω GSGSG contact configuration and configurable pitch from 100 µm to 1250 µm, it supports precision differential probing of RF devices, wafers, packages, and high-frequency test structures.



Key Features

- **DC to 145 GHz Operation** for high-frequency RF and mmWave characterization.
- **100 Ω GSGSG Configuration** for differential and mixed-mode measurements.
- **Configurable 100–1250 µm Pitch** for a wide range of differential RF pad layouts.
- **Interleaved Ground Geometry** helps provide separation between adjacent signal paths.



Typical Applications

- High-frequency differential RF and mmWave device characterization
- High-speed differential interconnect characterization
- RFIC / MMIC and transceiver characterization
- Advanced package and wafer-level differential testing
- Differential and mixed-mode S-parameter measurements

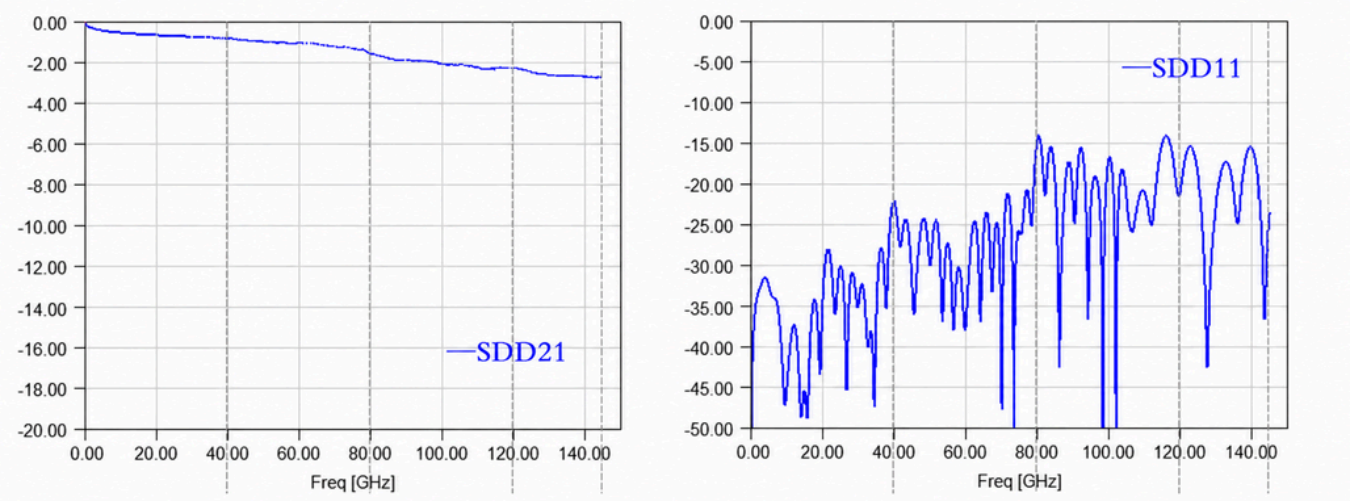
Electrical Specifications

Frequency Range	DC–145 GHz
Insertion Loss	< 3.5 dB
Return Loss	> 10 dB
Impedance	100 ± 2 Ω
DC Current	≤ 1 A
DC Voltage	≤ 100 V
RF Power	≤ 5 W

Mechanical Characteristics

Connector	0.8 mm Female
Tip Configuration	GSGSG
Connector Angle	45°
Pitch Range	100–1250 µm
Standard Pitch Step	50 µm
Pitch Step, 100–250 µm Range	25 µm
Pitch Step, 300–1250 µm Range	50 µm

Typical Performance: DC~145 GHz GSGSG Probe, 100 µm Pitch



Ordering Information

Model format

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

Where:

- **Frequency** = maximum operating frequency, e.g. 40/67/110/145G
- **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 pitch configurations are available within the supported range.

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/