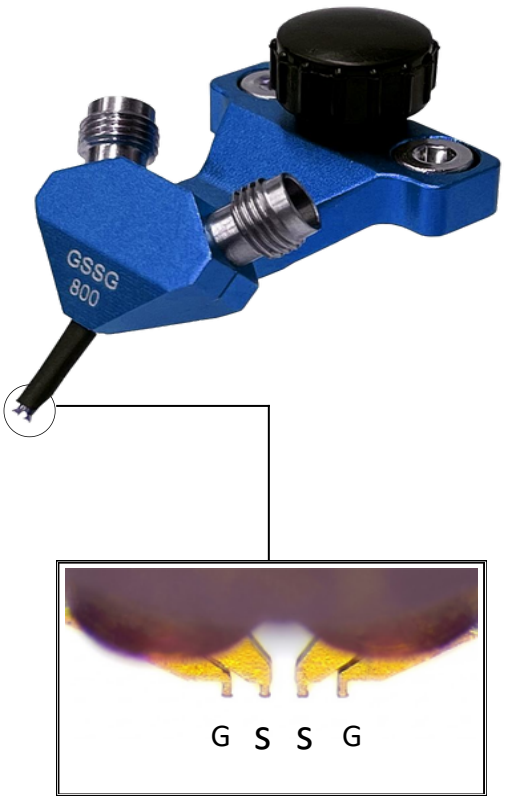
DC~67GHz GSSG Probe

Model: VST-67G-GSSG-XXX

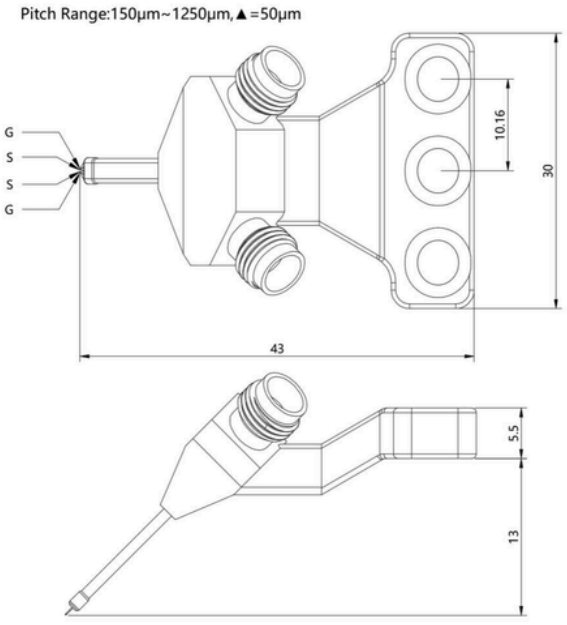
Product Overview

The Vinstronics VST-67G-GSSG-XXX is a mmWave differential probe designed for high-frequency characterization up to 67 GHz. Its GSSG architecture combines controlled signal-path symmetry with stable probe contact to support accurate differential and mixed-mode measurements for high-speed digital and mmWave RF devices.



Key Features

- **Differential Signal Integrity**: GSSG architecture optimized for accurate differential and mixed-mode measurements.
- **Signal-Path Symmetry**: Matched signal paths help minimize skew and mode conversion at high frequencies.
- **Low-Loss mmWave Performance**: Designed to preserve signal fidelity across broadband differential measurements.
- **Flexible Pad Access**: Configurable pitch supports a wide range of differential pad geometries.
- **Stable Probe Contact**: Designed for repeatable contact and consistent electrical performance.
- **Test-System Integration**: 1.85 mm RF interface for straightforward integration with mmWave VNA and probe-station setups.



Typical Applications

- High-speed SerDes and PAM4 signal integrity characterization
- 5G/6G mmWave differential RFIC/MMIC characterization
- High-speed transceiver and differential interconnect testing
- Wafer-level device and advanced packaging characterization

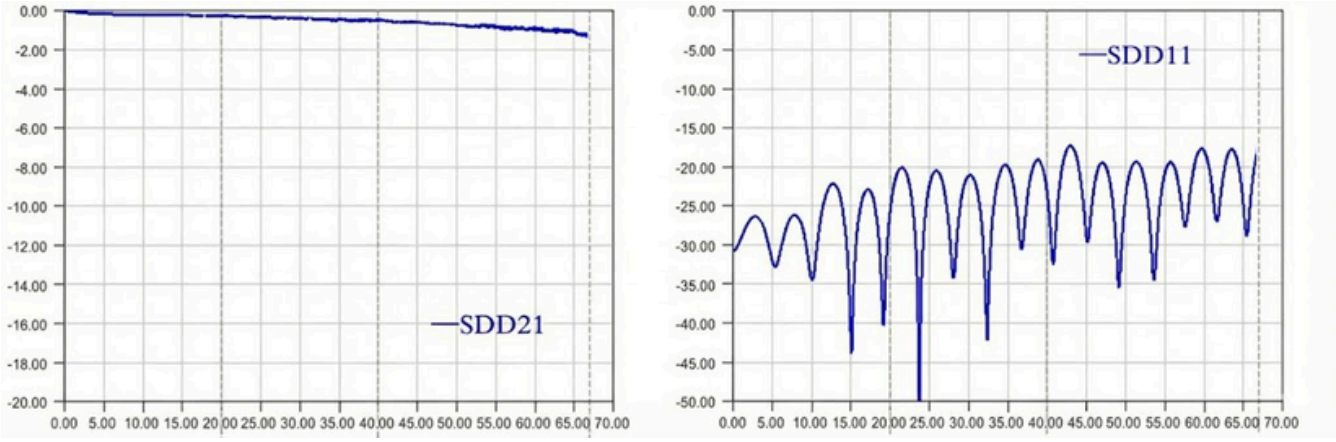
Electrical Specifications

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	GSSG
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 GSSG Probe 150 micron pitch



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/