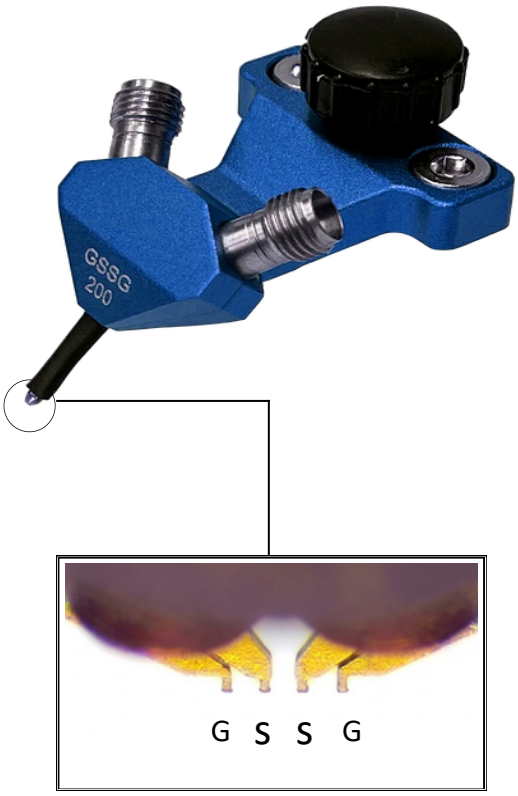
DC~40GHz GSSG Probe

Model: VST-40G-GSSG-XXX

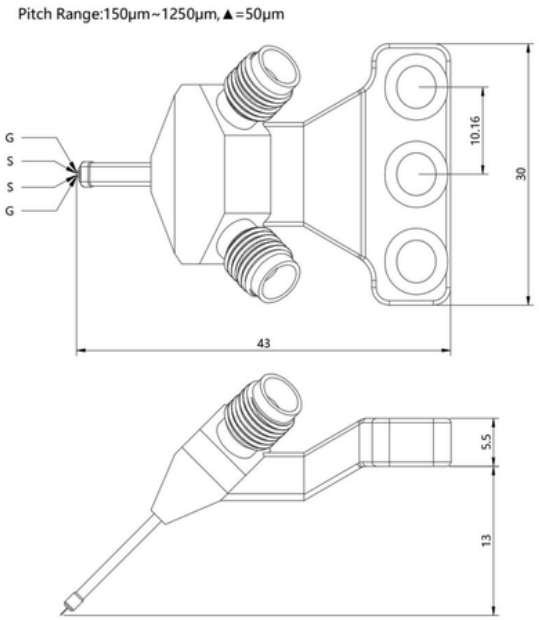
Product Overview

The Vinstronics VST-40G-GSSG-XXX is a broadband differential RF probe designed for characterization of high-speed interconnects and balanced RF devices. Its GSSG contact geometry provides a controlled interface for 100 Ω differential and mixed-mode measurements, supporting reliable signal integrity evaluation across device, PCB, package, and wafer-level test environments.



Key Features

- **Differential Measurement Architecture**: GSSG geometry optimized for balanced and mixed-mode characterization.
- **Controlled Signal Paths**: Designed to preserve differential measurement integrity across broadband test conditions.
- **Flexible Pad Access**: Configurable pitch supports a wide range of differential pad geometries and device layouts.
- **Broad Test Coverage**: Suitable for both high-speed digital interconnects and balanced RF device characterization.
- **Test-System Integration**: 2.92 mm RF interface for straightforward integration with RF probe stations and VNA-based test setups.



Typical Applications

- High-speed SerDes and differential interconnect characterization
- Differential RFIC/MMIC and balanced-device characterization
- PCB and package signal integrity analysis
- Wafer-level differential device characterization and validation

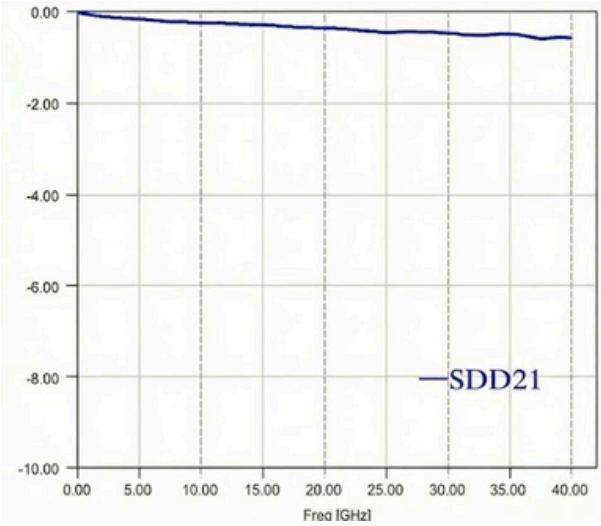
Electrical Specifications

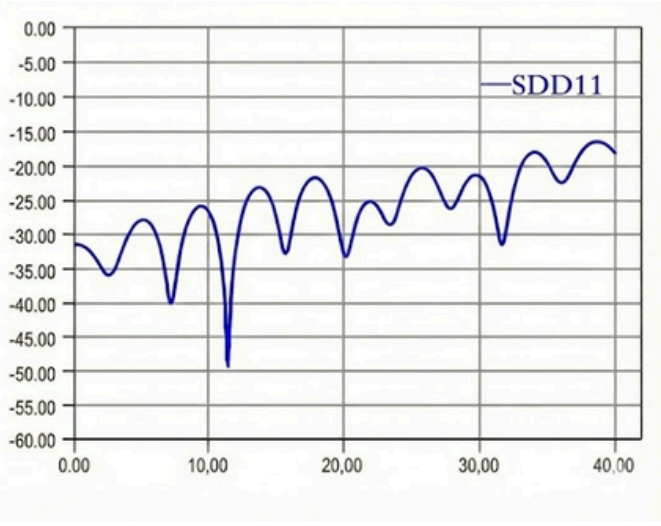
Frequency range	DC-40 GHz
Insertion loss	Spec:<2.0 dB
Return loss	Spec:>12 dB
Impedance	100 Ω
DC current	≤1 A
DC voltage	≤100 V
RF power	≤5 W

Mechanical Characteristics

Connector	2.92 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~40 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/