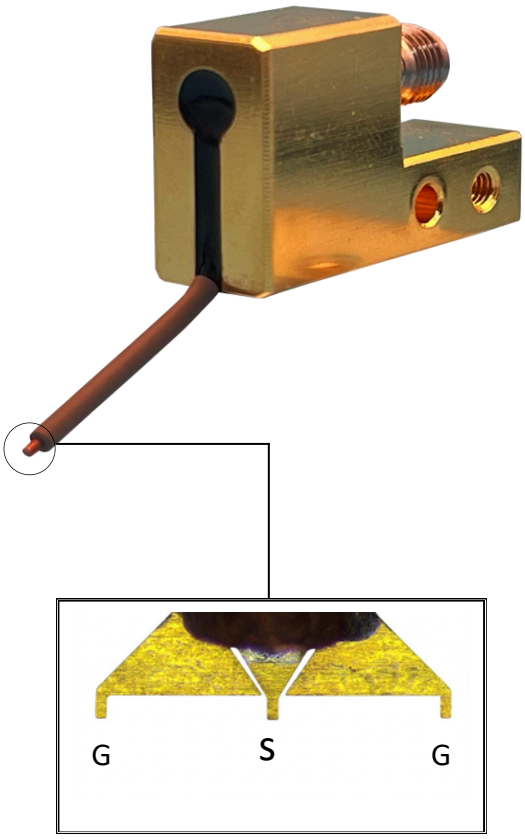
DC~40GHz GSG Probe

Model:VST-40G-GSG-XXX-MW/TU2 （XXX=Pitch range:μm)

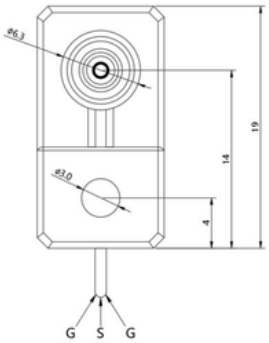
Product Overview

The Vinstronics VST-40G-GSG-MW/TU2 is a high-precision RF probe specifically engineered for environments sensitive to magnetic interference. Constructed using premium Oxygen-free Copper (MW/TU2), this probe ensures ultra-stable signal transmission in high-accuracy, high-frequency measurement scenarios. It is the premier solution for specialized testing where standard metallic components might compromise measurement integrity due to magnetic properties.



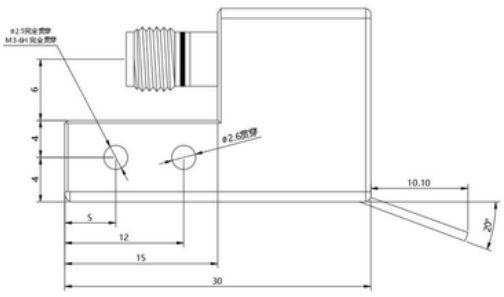
Key Features

- Non-Magnetic Construction: High-purity copper eliminates interference from magnetic materials.
- Cryogenic Ready: Optimized for stable performance in low-temperature and superconducting environments.
- High Conductivity: MW/TU2 grade copper ensures superior signal integrity and thermal management.
- 40 GHz Performance: Reliable 50 Ω impedance across the full wideband range.



Typical Applications

- Cryogenic and superconducting research.
- Magnetically sensitive environment testing.
- Quantum computing and qubit characterization.
- High-precision non-magnetic data acquisition.



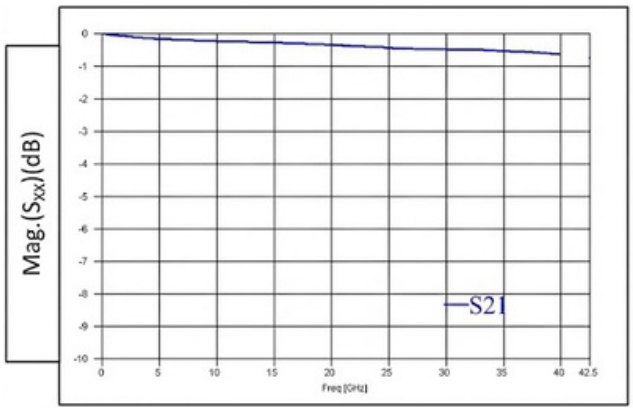
Typical Electrical Characteristics

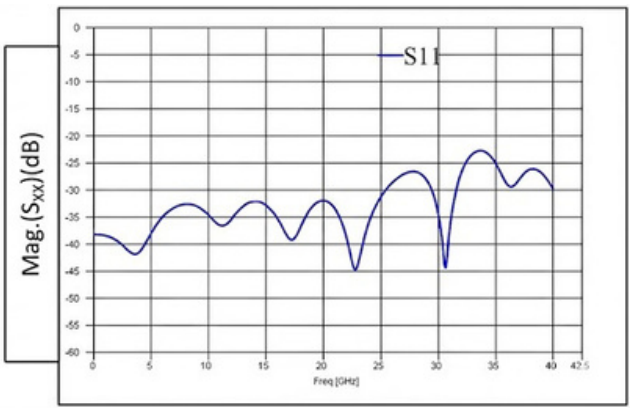
Frequency range	DC-40GHz
Insertion loss	Spec:<0.6dB
Return loss	Spec:>18dB
Impedance	50Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm Female
Tip configurations	GSG-DC
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 Electrical Characteristics: DC~40 GHz GSG Probe-MW/TU2





Ordering Information

Model format

VST-40G-GSG-XXX-MW/TU2

Where:

- 40G = frequency range (DC–40 GHz)
- GSG = tip configuration
- XXX = pad pitch in microns
- MW/TU2 = Oxygen-free Copper for non-magnetic applications

Example:VST-40G-GSG-150-MW/TU2 (40 GHz Oxygen-free Copper GSG probe with 150 µm pitch)

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/