DC~40GHz SS Probe

Model:VST-D40G-SS-XXX（XXX=Pitch range:μm)



Product Overview

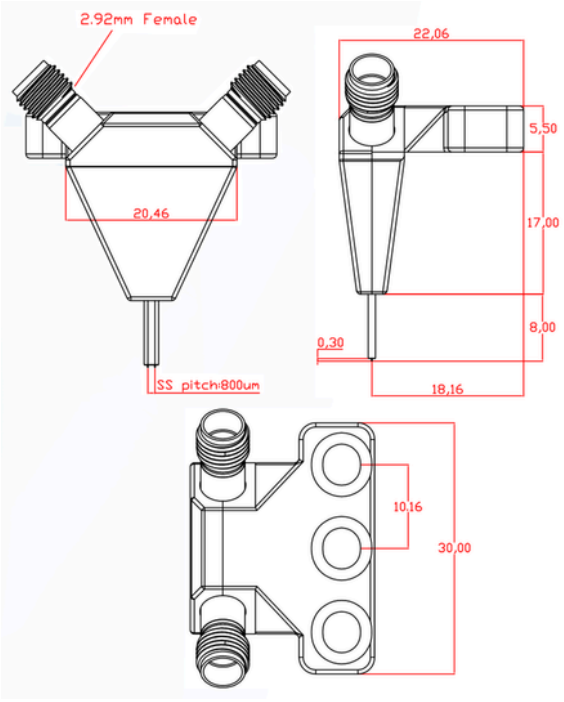
The Vinstronics VST-D40G-SS-XXX is a DC–40 GHz SS differential RF probe for direct PCB and PCBA-level measurement.

With an SS signal-to-signal tip configuration, 100 Ω differential impedance, and 2.92 mm female RF interfaces, it is designed for high-frequency differential structures where local ground pads may be limited or unavailable.

Pitch options are available within the supported range to match different PCB pad layouts and test requirements.

Key Features

- DC–40 GHz differential probing range
- SS tip configuration for signal-to-signal testing
- Pitch options for PCB-level differential pads
- 100 Ω differential impedance
- 2.92 mm female RF interfaces
- 45-degree connector angle for cable clearance
- 5 g contact force for light-touch probing



Typical Applications

- PCB and PCBA differential S-parameter testing
- High-speed interconnect and SerDes validation
- mmWave differential circuit characterization
- Board-level testing without nearby ground pads
- Automated high-frequency probe test setups

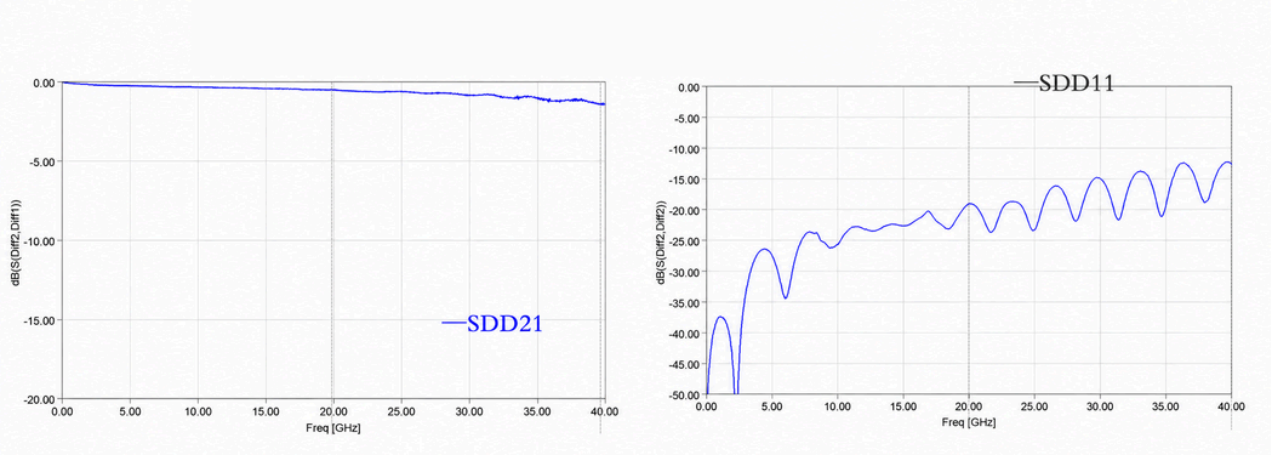
Typical Electrical Characteristics

Frequency range	DC-40GHz
Insertion loss	Spec:<2.5dB
Return loss	Spec:>10dB
Impedance	100Ω
DC current	≤1A
DC voltage	≤100V
RF power	≤5w

Mechanical Characteristics

Connector	2.92mm Female
Tip configurations	SS
Connector angle	45-degree
Pitch range	350μm-3000μm
Standard pitch step	120μm
Tip size	
from 500 um to 1250 um	120μm
Pressure	5g

Typical Electrical Characteristics: 40 GHz SS Probe 800 micron pitch



Ordering Information

Model format

VST-D67G-SS-XXX

Where:

- D67G = frequency range (DC–67 GHz)
- SS = tip configuration
- XXX = pad pitch in microns

Example:

VST-67G-SS-800

(67 GHz SS probe with 800 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/