

High Performance Microwave Probes for RF probing

❖ Model SP-90BT

- Durable
- > 60 to 90 GHz
- Insertion Loss 1.5 db max. (60-90 GHz)
- Return Loss 15 db max. (60-90 GHz)
- Measurement Repeatability -50 db
- Patented Coaxial Design
- Individually Spring-loaded Contacts
- Bias-T Option and 56-94 GHz Option Available

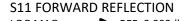


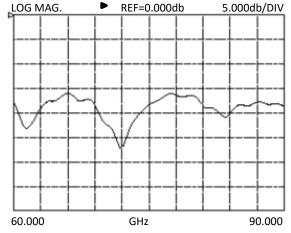
Model SP-90BT with bias T

Flexible Tips for Flexible Probing

The PICOPROBE MODEL SP-90BT is a high-performance microwave probe which incorporates a WR-12 waveguide with a patented coaxial design technique, has inherent low loss and low dispersion characteristics.

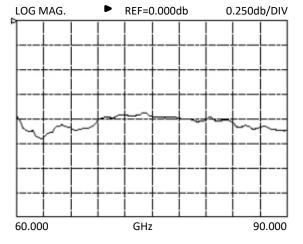
Like all of our microwave probes, the Model SP-90BT features: individually spring loaded Beryllium-Copper tips which provide reliable contacts even when probing non-planar structures; direct viewing of probe tips for accurate positioning; and can be designed to almost any pitch and footprint. Smaller pitches (50-450 microns) and Ground-Signal-Ground footprints are recommended for optimum performance.





Typical uncalibrated performance of a Model SP-90BT-GSG-150 while touching a 50 ohm load on our CS-5 Calibration Substrate

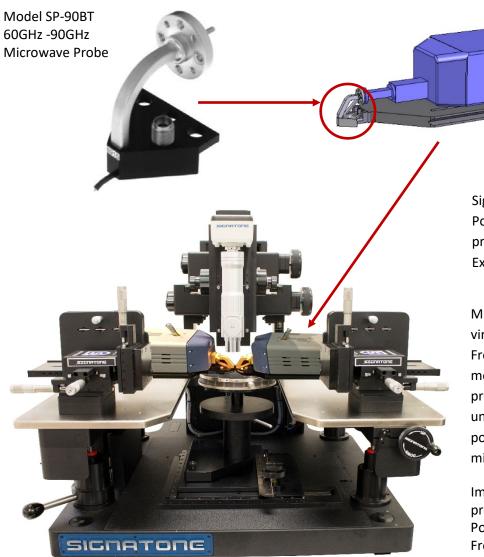
S21 FORWARD TRANSMISSION



Typical insertion loss of a Model SP- 90BT- GSG-150



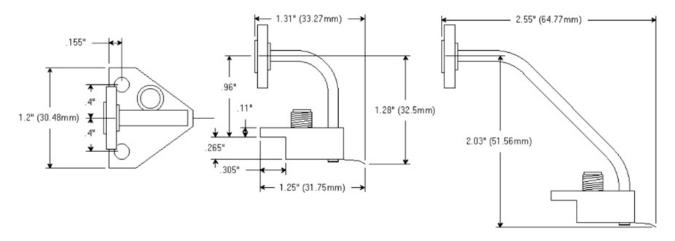
Probe Mounting and Dimensions



Signatone S-LAP-90 Large Area Positioner for mounting 50-1100GHz probes directly to the Frequency Extender with wave guide.

Micropositioners are available to hold virtually all the current models of Frequency extenders and tuners modules so that the module and the probe are moved and positioned as a unit (together). In this way, total ease of positioning can be achieved with minimum insertion loss.

Image Left: Shows WaveLink 170-THZ probe station with East & West S-LAP-90 Positioners, 325 GHz probes attached to Frequency Extenders.



Model SP-90BT Waveguide Dimensions

Model SP-90BT-M Waveguide Dimensions



WARRANTY

- Standard Warranty 12 months *
- For Extended Warranty and Service Contracts: Contact Signatone Corp. for more information
- * See Signatone Corporate Terms and Conditions of Sale for further details.

North America: Sales.NA@signatone.com
Europe: Sales.Europe@signatone.com

■ Asia: Sales.Asia@signatone.com

