

MegaPhase®



With the right connections,
anything is possible.

MegaPhase Probe Station Test Cable Assembly

The PS Series test cables are specifically designed for dynamic probe station measurements and offer low loss, phase stable performance through 110 GHz. The PS Series cable can be mechanically formed to ensure proper connector to connector spacing and that interfering surfaces associated with a given probe can be avoided while ensuring the station head has complete freedom of movement. The cables will be sold as both OEM components or as replacement cables for existing probe stations. MegaPhase has employed their rugged RF technology to provide a low-profile form meeting the tight constraints associated with precision wafer measurements.

Electrical Data

Maximum Frequency:

PS40 40 GHz
PS50 50 GHz
PS67 67 GHz
PS110 110 GHz

Impedance:

50 Ω nominal

Shielding Effectiveness:

-110 dB minimum (cable only)



Flexible Cable Construction

Center Conductor: Solid Ag plated Cu
Dielectric: Foamed FEP
Shields: Silver plated Cu braid
over wrapped Ag plated
Cu foil
Jacket: FEP

Semi-Rigid Cable Construction

Center Conductor: Ag Plated
Cu clad steel
Dielectric: Solid PTFE
Shield: Tin plated Cu

Available Connectors

PS40 2.92mm
PS50 2.4mm
PS67 1.85mm
PS110 1.0mm

122 Banner Road, Stroudsburg, PA 18360-6433

Tel: 570-424-8400

Solutions@MegaPhase.com | www.MegaPhase.com



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MegaPhase Probe Station Test Cable Assembly (continued)

Part Number Ordering Information:

PS	Frequency Code	Port Connector Code	DUT Connector Code	Length in Inches	Connector Angle
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For example: **PS40-K1K1-36-90** would designate a Probe Station Cable DC-40 GHz, with a 2.92mm male to a 2.92mm male connector, 36 inches in length, 90 degree probe angle.



	Connector Type	Connector Code	Max Frequency
PS40	2.92mm Male	K1	40 GHz
PS40	2.92mm Female	K2	40 GHz
PS50	2.4mm Male	21	50 GHz
PS50	2.4mm Female	22	50 GHz
PS67	1.85mm Male	V1	67 GHz
PS67	1.85mm Female	V2	67 GHz
PS110	1.0mm Male	11	110 GHz
PS110	1.0mm Female	12	110 GHz

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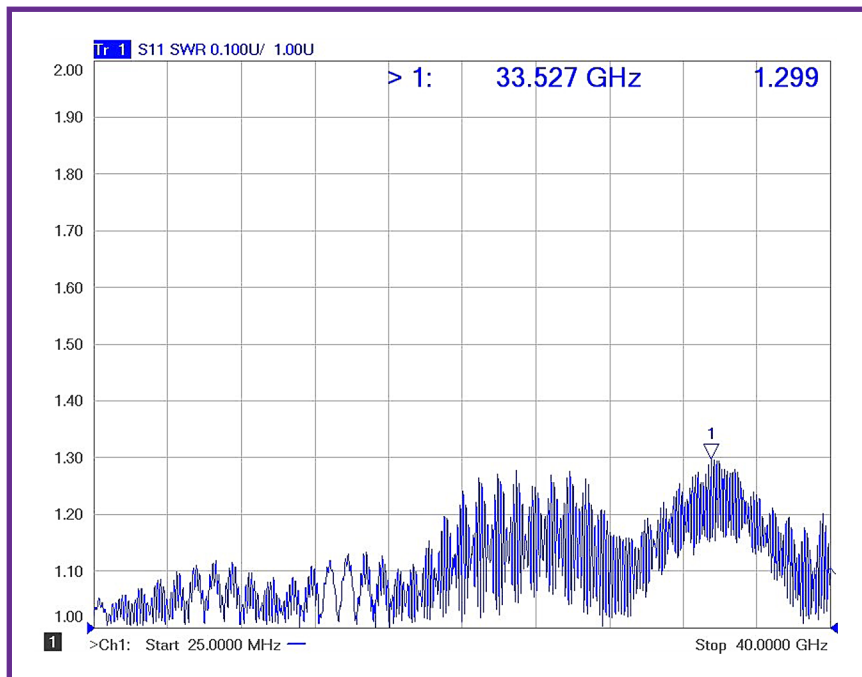
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MegaPhase Probe Station Test Cable Assembly (continued)

PS40 Probe Assembly



Typical VSWR



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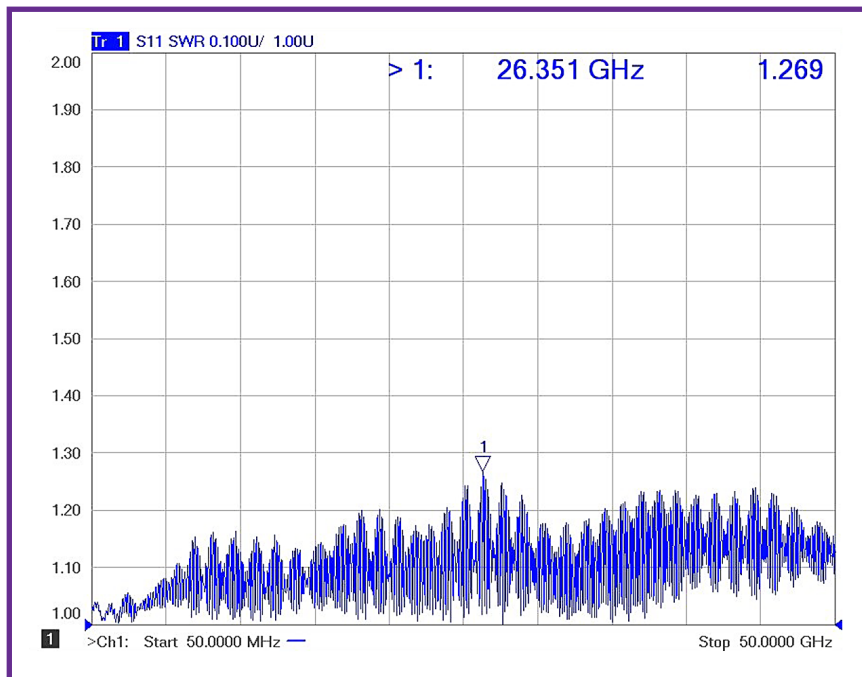
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MegaPhase Probe Station Test Cable Assembly (continued)

PS50 Probe Assembly



Typical VSWR



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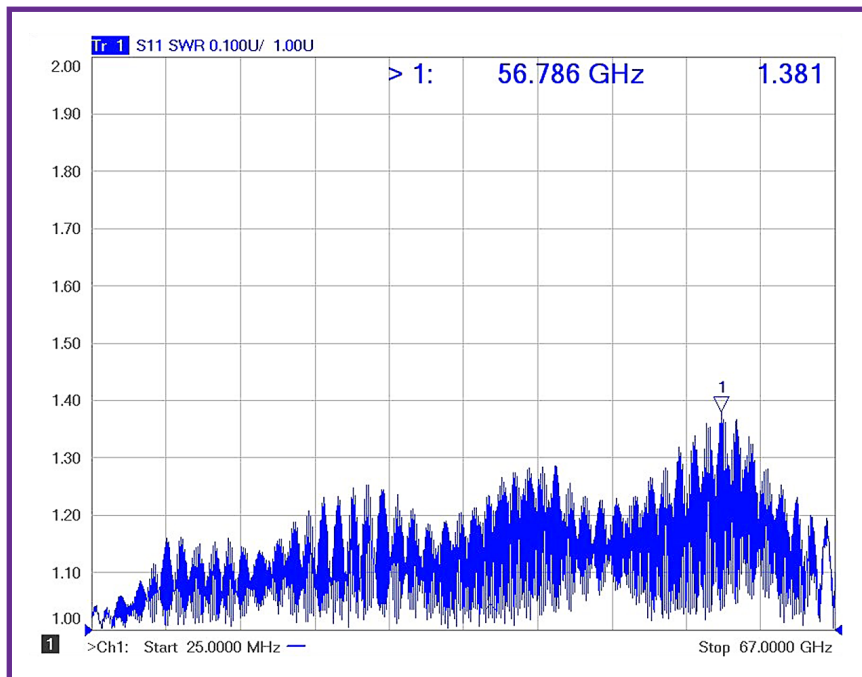
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MegaPhase Probe Station Test Cable Assembly (continued)

PS67 Probe Assembly



Typical VSWR



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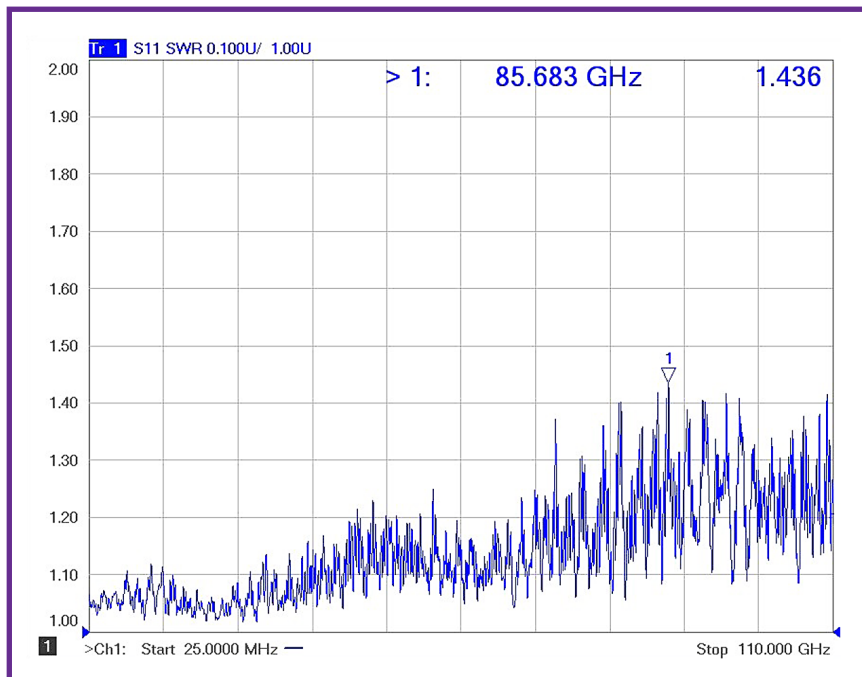
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MegaPhase Probe Station Test Cable Assembly (continued)

PS110 Probe Assembly



Typical VSWR



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