



Signal Microwave FPP Probe Series

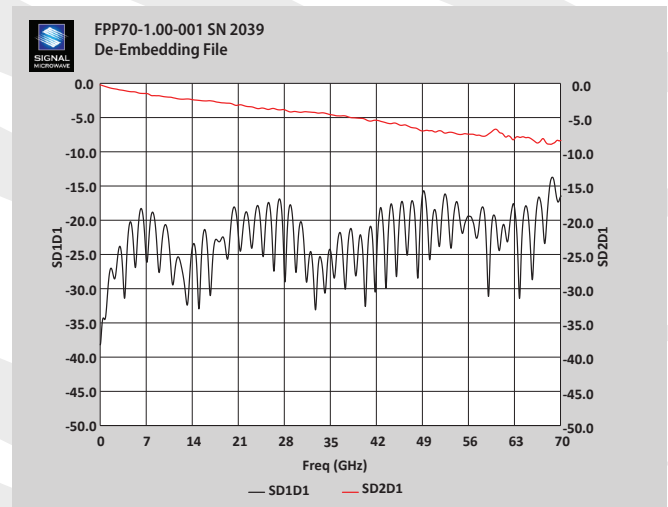
40/50/70/110 GHz Wide Pitch True Differential TDR/VNA Probes

Signal Microwave, in partnership with DVT Solutions, is producing a series of differential probes. The DVT-FPPXX, are 40 GHz, 50 GHz, 70 GHz, and 110 GHz true differential probes. These probes are designed to support the industry's demand for higher data rates over differential traces. They are used to characterize transmission lines and devices such as 28 - 56 GHz Nyquist bandwidth S-parameters for standards like PCIe5 with SerDes technology.

To meet these needs, a newly patented differential probe design was developed to replace internal cable wires with a printed circuit board. It has a high bandwidth differential transmission line that can be used with test equipment to measure differential S-parameters up to 110 GHz. There are also de-embedding methods and boards available that support the probes.

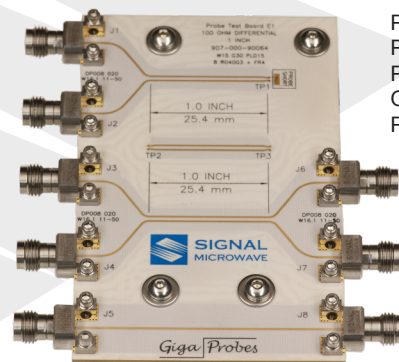
- 100 ohm true odd mode differential
- 2 signal pins only – no ground pins
- Multiple bandwidths
40 GHz, 50 GHz, 70 GHz, and 110 GHz
- Multiple probe pin pitches
1.0 mm, 0.8 mm, and 0.6 mm pin pitches
- Multiple 3 hole mounting configurations
PM-001: X- axis, y- axis, and up/down axis control
PM-002: X- axis, y- axis, and theta angle axis control
- Straight 1 hole mounting
- Custom mounting configurations available
- Multiple pin lengths available as options
- 1 year warranty

Probe 70 GHz s-parameters



Signal Microwave, LLC

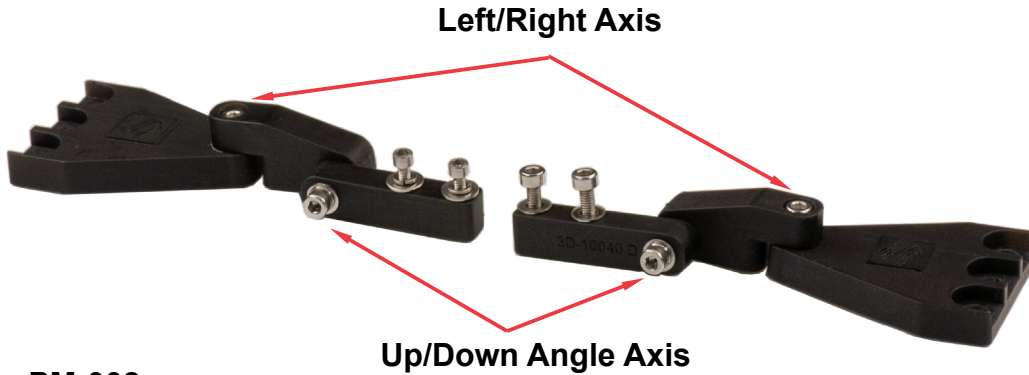
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Patent 10852322
 Patent 11175311
 Patent 11543434
 Other Patents
 Pending

Probe Mount options

PM-001



PM-002



Probe Ordering Information



Fixed Pitch Probe frequency range as defined by connectors

FPP – default

Frequency Range

- 40** (GHz) for 2.92 mm connectors
- 50** (GHz) for 2.40 mm connectors
- 70** (GHz) for 1.85 mm connectors
- 110** (GHz) for 1.0 mm connectors

Probe pin pitch spacing (center to center of probe tips)

- 1.00** – 1.0 mm spacing
- 0.80** – 0.8 mm spacing
- 0.60** – 0.6 mm spacing

Body style and pin length defined in sequential order

- 001** – standard
- 002** and beyond will be for different configurations

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