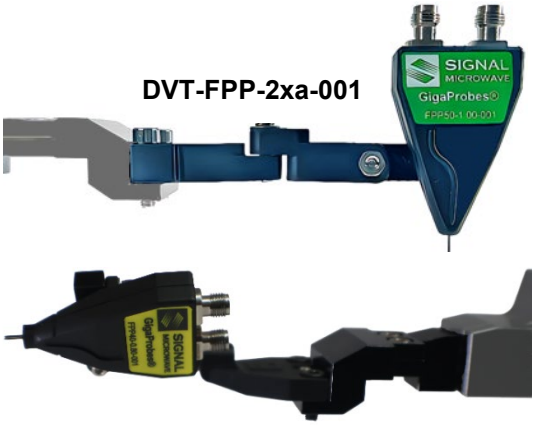
2-Axis DVT-FPPNN Probe Adapters

For DVT-FPPNN 40 GHz to 110 GHz Differential Probes



DVT-FPP-2xa-001

DVT-FPP-2xa-002

Features

Easy assembly and versatile mounting

- Compatible with standard 3-hole positioner adapters
- Adjustable through nine unique probing configurations

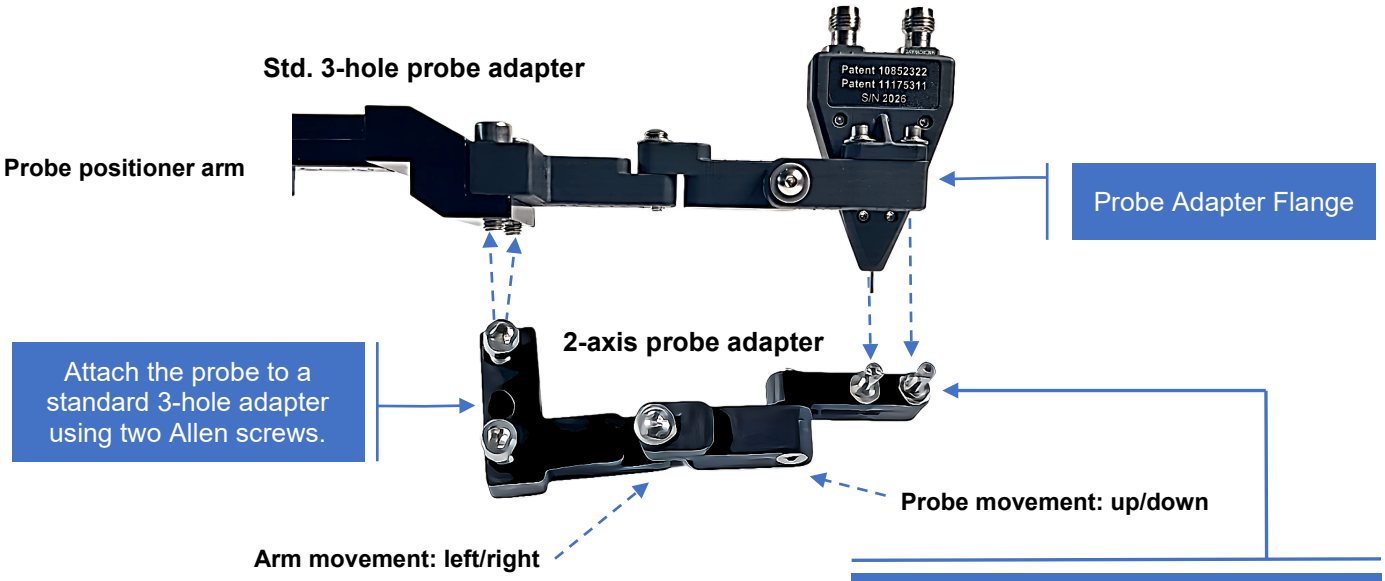
DVT-FPP-2xa-001

- ±0° to 90° probe articulation (up/down and left/right)
- Supports both vertical and horizontal probing orientations
- Ideal for tight-access probing scenarios

DVT-FPP-2xa-002

- ± 0° To 90°probe articulation with diagonal adjustment

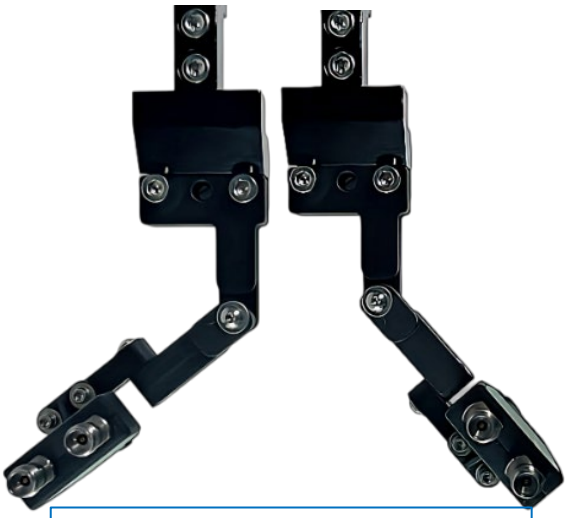
Assembling the DVT-FPPNN Probe to the DVT-FPP-2xa-001 2-Axis Adapter



Nine different configurations for the DVT-FPP-2xa-001 (Top-down view)

Horizontal: Side-by-side probing
- Arm is straight
- Probe can be on the left or right side
- Probe straight down

Vertical Probing: Vertically fixtured PCB
- Arm is straight
- Probe can be on the left or right side
- Probe is lifted to contact horizontally oriented test pads



Vertical probing:
- Arm is 90° to vertically fixtured PCB
- Probe is lifted to contact vertically oriented test pads

Horizontal probing:
- 90° oriented test pads on a horizontally fixtured PCB
- Probe can be on the left or right side
- Probe straight down

Three orientations (Side view)

Horizontal Probing: Probe horizontally or vertically oriented test pads on horizontal fixtured PCB
- Probe can be on the left or right side
- Probe arm is in the straight position

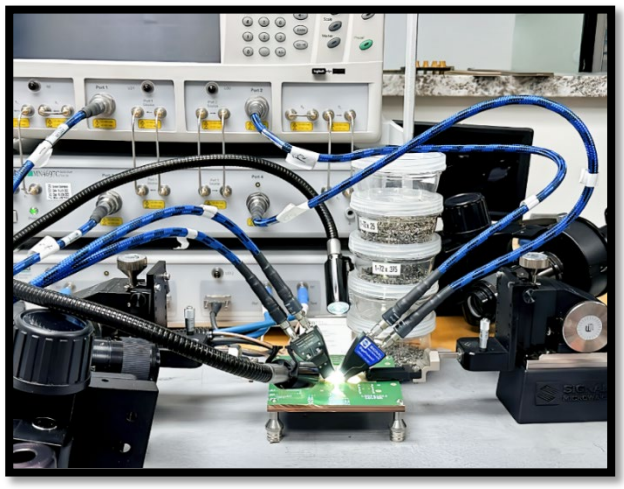
Vertical 90° Probing: Probe horizontally oriented test pads on a vertically fixtured PCB
- Probe can be on the left or right side
- Probe arm is lifted into position

Horizontal 45° probing: Horizontally fixtured PCB
- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on the left or right side
- Probe arm is in the straight position

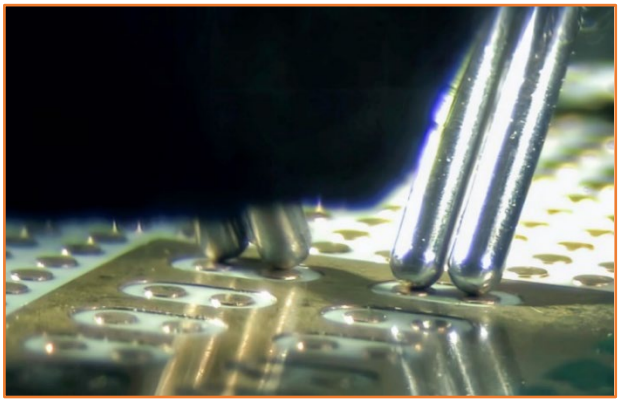
APPLICATION

Probe 1 mm pitch differential face-to-face PCI loopback coupons for 40 GHz to 110 GHz S-parameter analysis

Probes are placed face-to-face on test pads.

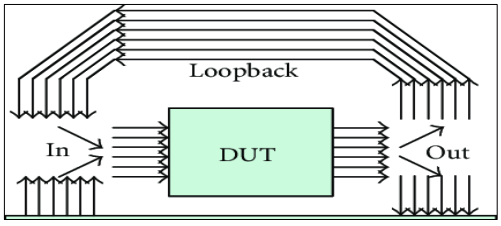


Probe tips are placed with 1 mm spacing.

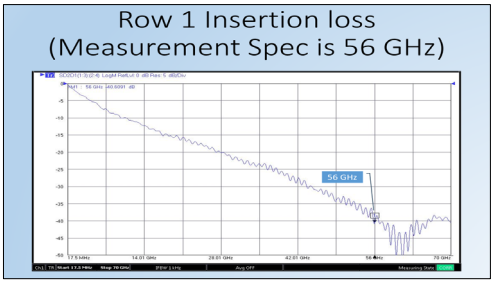


Horizontal 45° probing: Horizontally fixtured PCB
- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on the left or right side
- Probe arm is in the straight position

Insertion loss bandwidth measurements are made on differential traces simulating the connection from the input to the output of a semiconductor device.

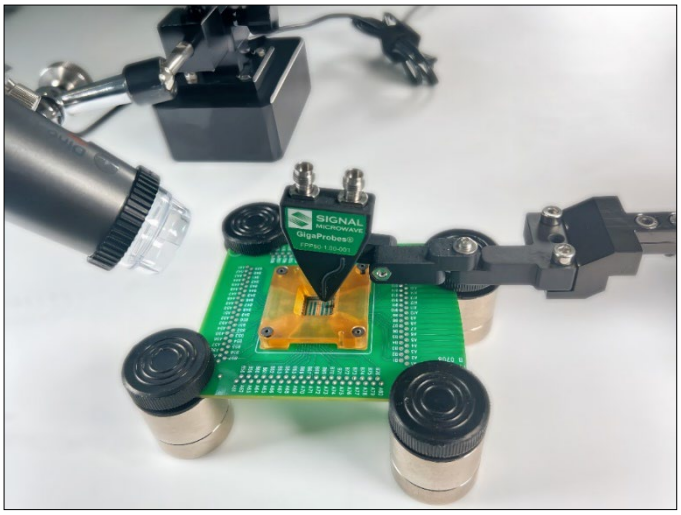


S-parameter measurement to 70 GHz

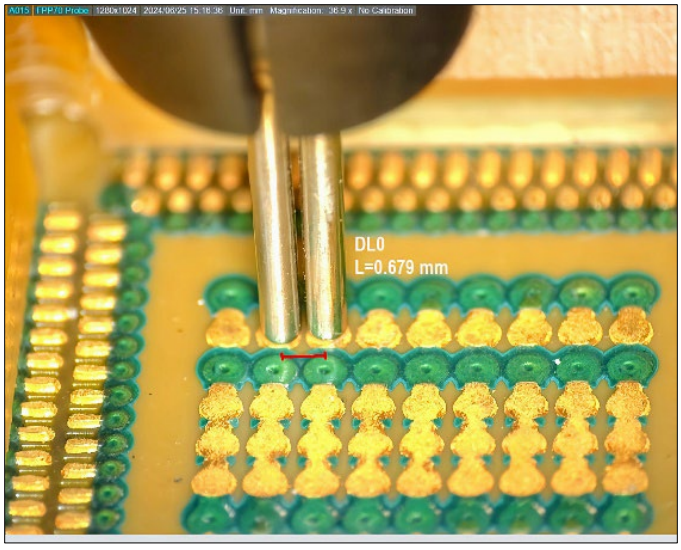


APPLICATION

Probe 1 mm pitch differential face-to-face PCI loopback coupons for 40 GHz to 110 GHz S-parameter analysis



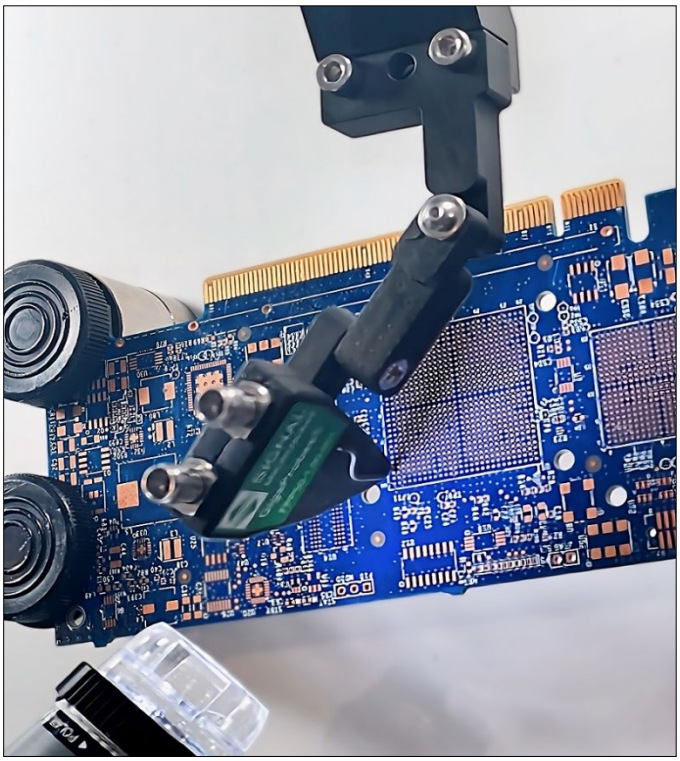
Horizontal 45° probing: Horizontally fixtured PCB
- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on the left or right side
- Probe arm is in the straight position



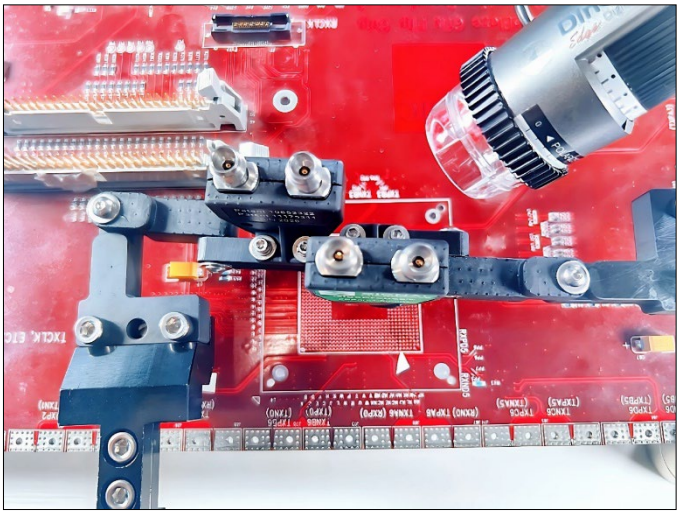
DVT-FPNN Differential rugged probe extends reach into test sockets or onto board-to-board interposers with force to make impedance and S-parameter bandwidth measurements to 70 GHz.

APPLICATION

Probe Test Pads at 0° to 90° or Side by Side



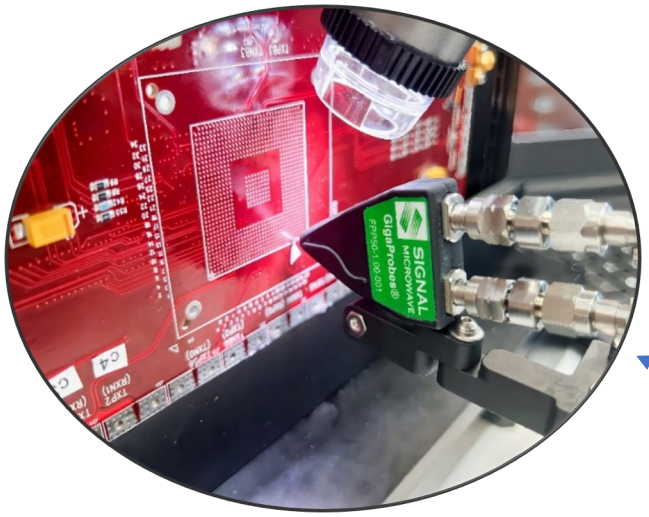
Horizontal probing: 45° oriented test pads on horizontal fixtured PCB
- Probe can be on the left or right side
- Probe straight down



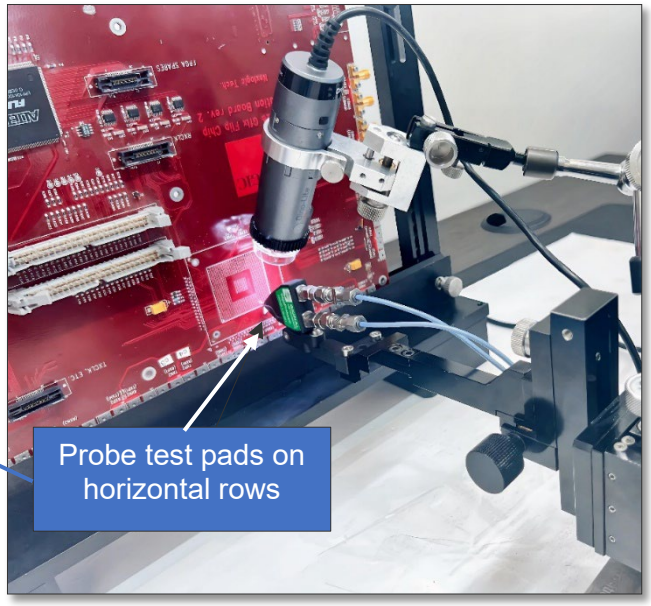
Horizontal probing: 90° oriented test pads on horizontal fixtured PCB
- Probe can be on the left or right side
- Probe straight down

APPLICATION

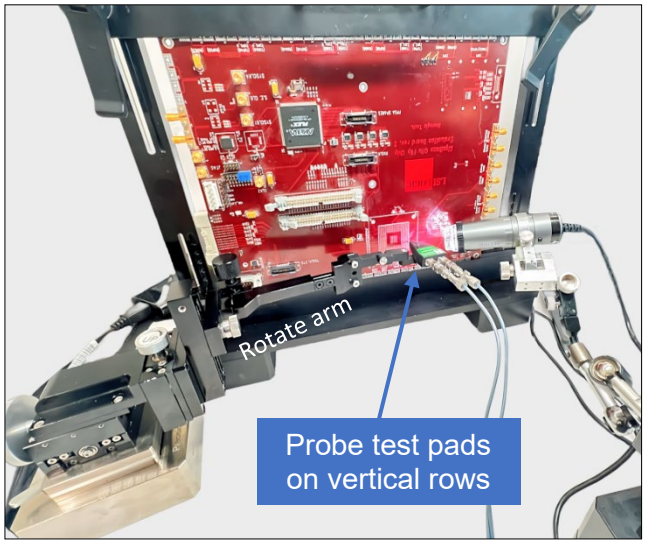
Two-sided Vertical probing of Horizontally or Vertically oriented test pads



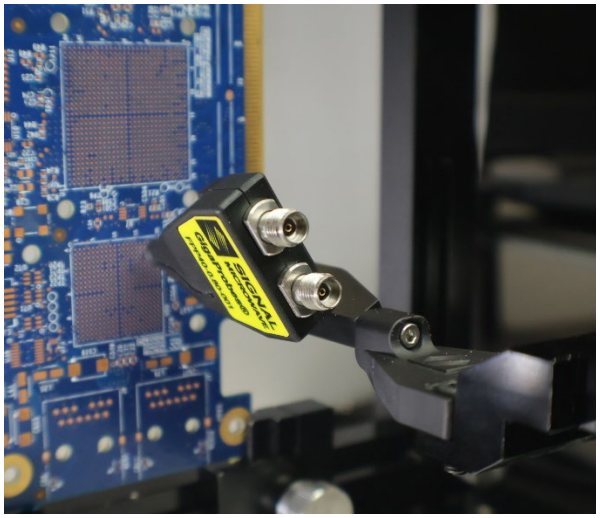
Vertical 90° Probing: Probe horizontally oriented test pads on a vertically fixtured PCB
- Probe can be on the left or right side
- Probe arm is lifted into position



Vertical Probing: Probe *vertically* oriented test pads on a vertically fixtured PCB
- Probe can be on the left or right side
- Probe arm is in straight position



DVT-FPP-2xa-002

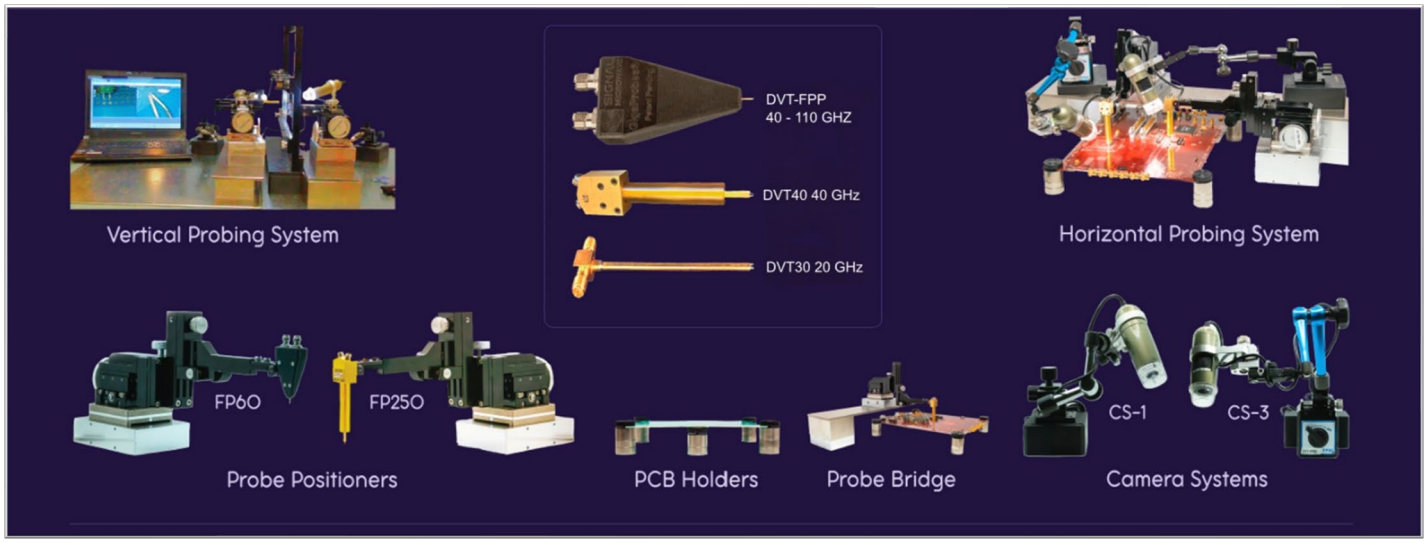


Diagonal Probing: Probe *diagonally* oriented test pads on a vertically fixtured PCB
- Provides a Theta control for adjusting the rotational angle of the probe from +/- 0° to 90°
- Probe can be on the left or right side

PROBE SYSTEM COMPONENTS

Create your own custom Desktop Probing System

Select the appropriate probe bandwidth and system components to configure a probe system that meets your measurement and fixturing requirements.



For detailed descriptions and specifications for GigaProbes components, visit our website at gigaprobes.com.