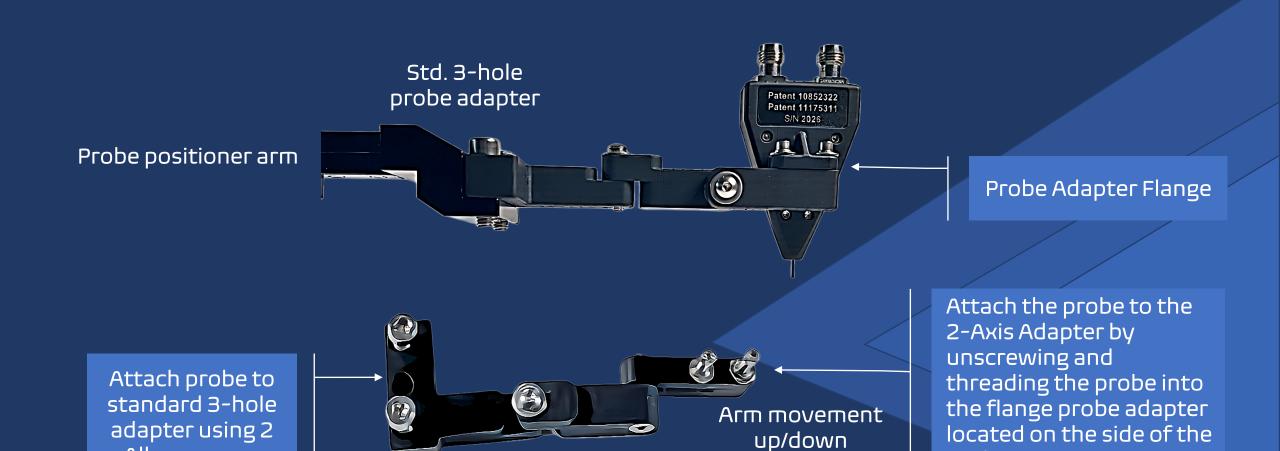
2-Axis Probe Adapter for DVT-FPPNN Differential Probes (40 GHz to 110 GHz)

Overview

- Assembling the DVT-FPPNN Probe to the 2-Axis Adapter
- Configurations for Probing Vertical or Horizontal Mounted PCBs
- Probing Applications for the 2-Axis Probe Adapter
- Contact Information



Assembling the DVT-FPPNN probe to the 2-Axis Adapter



Arm movement left/right

Allen screws.



probe.

DVT-FPPNN Differential 2-Axis Probe Adapter 9 different configurations (top-down view)

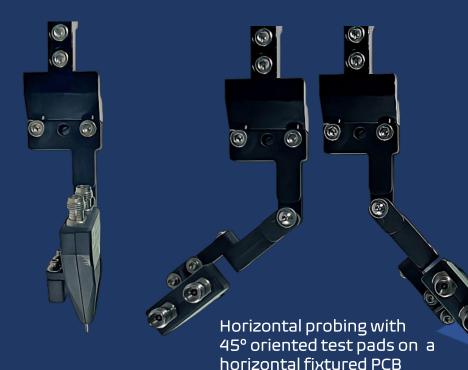
- Probe can be on left/right side

- Probe straight down



Horizontal Side-by-side probing

- Arm is straight
- Probe on the right or left side
- Probe straight down



Vertical Vertically fixtured PCB

- Arm is straight, probe can be placed on the right or left side
- Probe is lifted to contact horizontally oriented test pads



Vertical probing with arm 90° to a vertically fixtured PCB - Probe is lifted to contact vertically oriented test pads



Horizontal probing: 90° oriented test pads on horizontal fixtured PCB

- Probe can be on left or right side
- Probe straight down

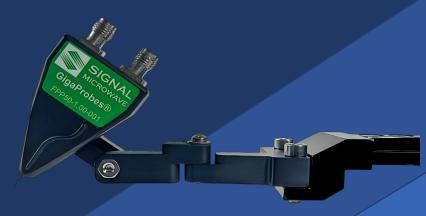
DVT-FPPNN Differential 2-Axis Probe Adapter 3 different probing configurations (side view)



Horizontal Probing: Probe horizontal or Vertically oriented test pads on horizontal fixtured PCB

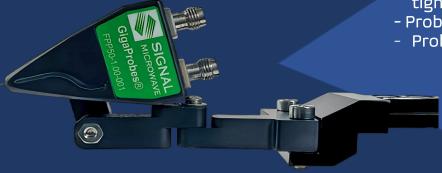
- Probe can be on left or right side

- Probe arm is in the straight position



Horizontal 45° probing: Horizontally fixtured PCB

- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on left or right side
- Probe arm is in the straight position



Vertical 90° Probing: Probe horizontal oriented test pads on vertical fixtured PCB

- Probe can be on left or right side
- Probe arm is lifted into position

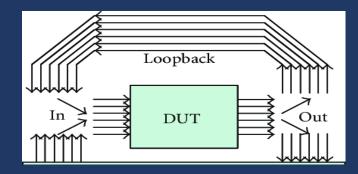
Application: Probe 1 mm pitch differential face-to-face PCI loopback coupons for 40 GHz to 110 GHz S-parameter analysis



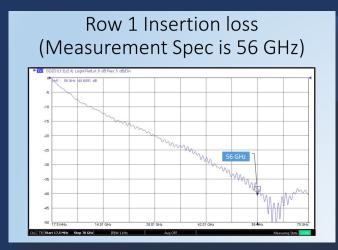
Probes are placed face to face on test pads



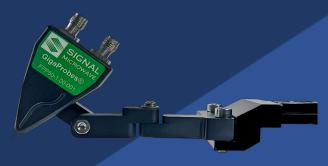
Probe tips placed with 1 mm spacing



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

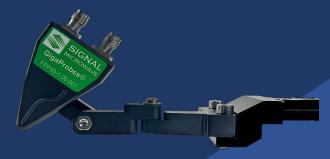


Horizontal 45° probing: Horizontally fixtured PCB

- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on left or right side
- Probe arm is in the straight position

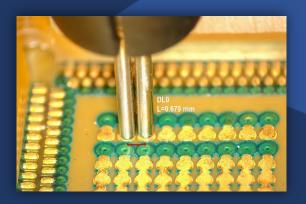
Application: Probe into test sockets or board-to-board pogo pin interface to make 70 GHz S-parameter bandwidth measurements





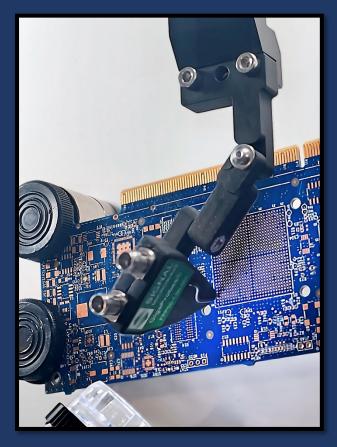
Horizontal 45° probing: Horizontally fixtured PCB

- Probe into deep test sockets or face-to-face tight-pitched test pads
- Probe can be on left or right side
- Probe arm is in the straight position



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

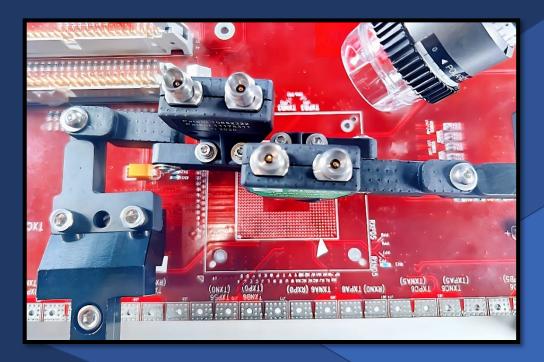
Application: Probe Test Pads at 0° to 90° or Side by Side





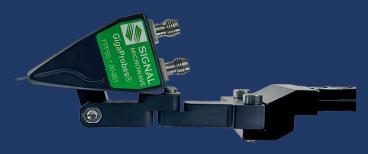
Horizontal probing: 45° oriented test pads on horizontal fixtured PCB

- Probe can be on left/right side
- Probe straight down



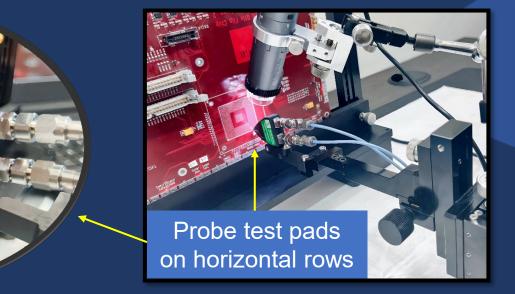


Application: Two-sided Vertical probing of Horizonal or Vertical oriented test pads



Vertical Probing: Probe horizontal oriented test pads on vertical fixtured PCB

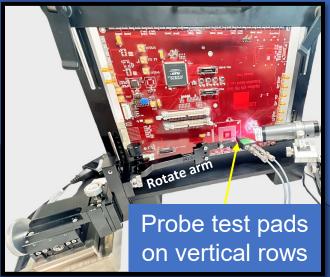
- Probe can be on left/right side
- Probe arm is lifted into position





Horizontal probing: 45° oriented test pads on horizontal fixtured PCB

- Probe can be on left/right side
- Probe straight down

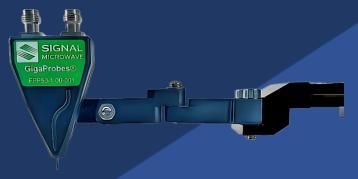


Application: Make accurate camera distance measurements on Probe Pitch and Test Pads



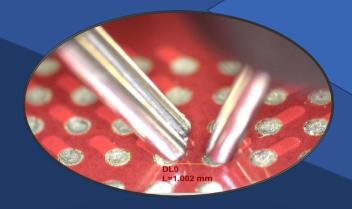
DVT-CS-3 or 1 camera system Dyno-Lite Edge Camera

- Includes software with calibration substrate
- Calibrates line tools to measure probe tips and test pad pitches
- Enables offset probing to probe small test pads with wider pitch probes



Horizontal probing: 45° oriented test pads on horizontal fixtured PCBs

- Probe can be on left or right side
- Probe straight down



Probe System Components Create semi-custom desktop probe system

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



For further information, contact:

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Bradenton, FL 34211-1738

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