

IC Footprint Probe

Description

Ardent's ICFP offers 50 ohm access to IC contact pads and signal paths on an IC circuit footprint, this solution is a simple to manipulate, cost effective and time saving alternative to expensive X-Y tables and fragile planar probes for Engineers who may need to probe multiple signals at once.

- Reference Design De-Bug
- Reference Design Loss De-Embedding
- Test Interface Characterization
- Test Interface Troubleshooting
- TDR Measurements
- Probe Card Verification

With ICFP technology, test engineers and reference design engineers can implement the shortest, fastest, compression mount connector technology on the planet to probe multiple signals simultaneously.

Key Benefits

Performance

- › 40 GHz+
- › Less expensive and more robust than planar probes
- › Quicker and easier probing through guided alignment

Density & Flexibility

- › 0.8 mm and 1.0 mm pitches for industry standard IC packages
- › Compression mount
- › Pure vertical interface – no offset required

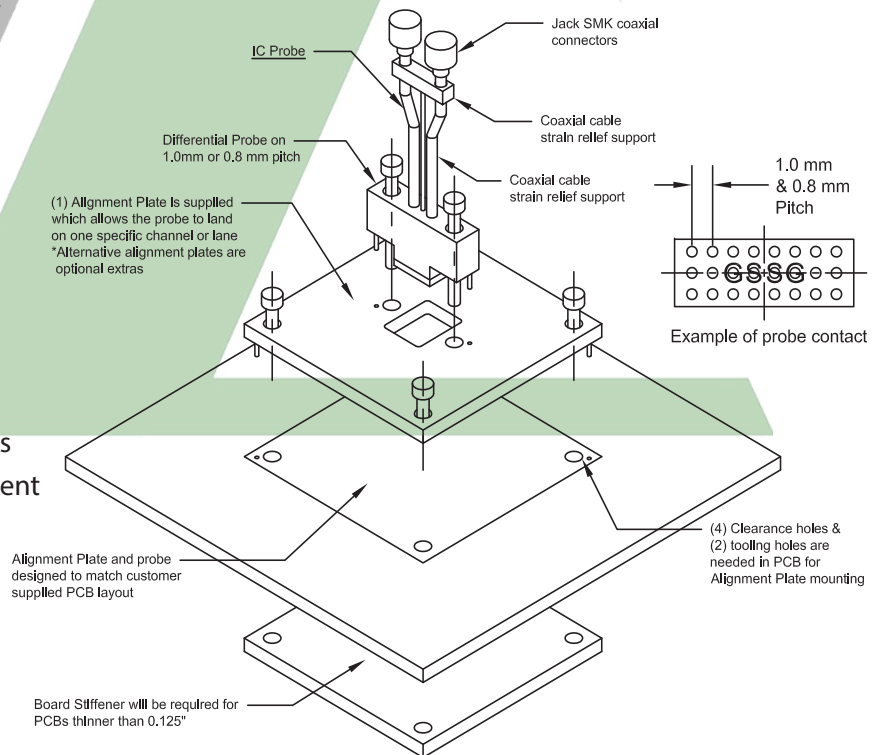
Cost Savings

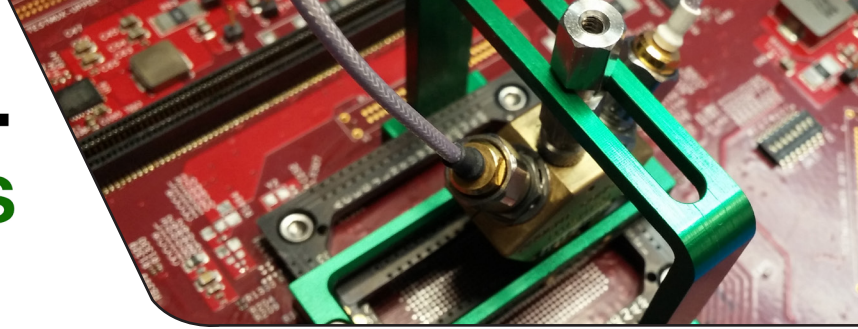
- › No more breaking of fragile planar probes

Specifications

| | |
|---------------------|--|
| Pitch | 1.0mm or 0.8mm |
| Form Factor | Differential (G-S-S-G) |
| Connector Options | 2.92mm (SMK) Female (Jack) connectors |
| Calibration Options | Calibration Probe available to de-embed ICFP |
| Probe Support | PCB stiffener included |

Drawing





IC Footprint Probe

Ordering Information

| Parts | Speed | Number of Leads X Rows | Transmitting/Receiving | Pitch | Rev |
|---------------------------------------|-------------|------------------------|------------------------|-------------|-----|
| PCB Stiffener & Alignment Plate (IP)* | N/A | 2X1 | N/A | 1 mm (1001) | N/A |
| Probe Assembly (PA)* | 40 GHz (40) | 2X1 | TX/RX | 1 mm (1001) | N/A |
| De-Embed Probe (DP) | 40 GHz (40) | 2X1 | N/A | 1 mm (1001) | N/A |
| Spare Interface Assembly (IA) | N/A | 2X1 | TX / RX | 1 mm (1001) | A |

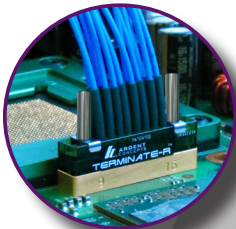
*Initial purchase must both include IP and PA

For custom applications please consult factory

Specifications subject to change without notice

Related Products

TR Multicoax Series™



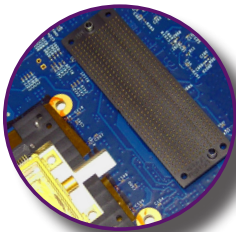
- Superior signal integrity up to 70 GHz+
- Better long term repeatability of connector performance
- Solderless system eliminates signal distortion
- Quick connection of multiple signals to PCB
- 80% space savings over SMPs
- High density gets TR closer to the DUT
- Reusable across programs for exponential cost savings

QUICKLINK Coaxial Connector

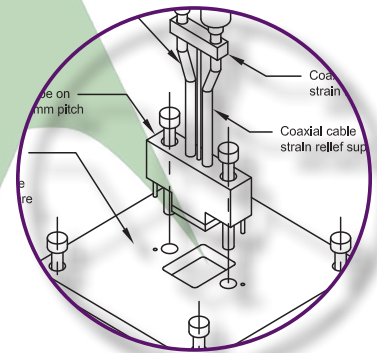


- Superior signal integrity DC to 70 GHz+
- Reusable across programs promotes exponential cost savings
- Board component reduction while increasing reliability and density
- Rapid connection to PCB - No threading or tools required

CA Series™ - Connectors & Interposers



- 32 Gbps+
- Area array to 0.4mm pitch
- Compression mount & solderless
- Pure vertical interface – no offset required
- Ideal for high shock and vibration/extreme temperatures applications



Example Part Number:

PA40-2X1-TX-1001

www.ardentconcepts.com

More Information

For questions
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