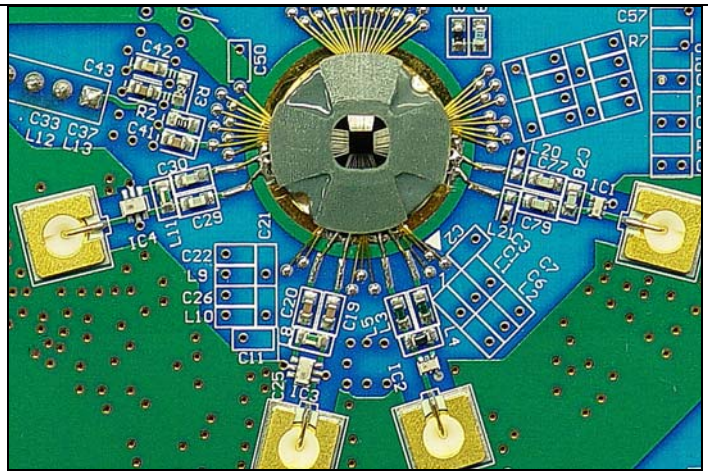
G-Probe™ – Epoxy RF Probe Card Product Specification

Many of today's devices are mixed signal requiring a High Frequency or High Data Rate Probing Solution that is reliable, fast to design/build, and cost effective. For those customers requiring such a Probe Card, ProbeLogic designed the G-Probe™ as a simple and cost effective solution. The G-Probe™ uses Hybrid Epoxy Technology, which is a combination of standard Cantilever probes (power, ground, and low analog signals) and a special Shielded Cantilever probe for testing up to 3GHz. The result is a robust Probe Card that performs identical to standard Epoxy Probe Technology and requires no special prober setup or maintenance training.

ProbeLogic utilizes the latest State-of-the-Art Technology and Equipment to engineer, design, and manufacture high quality and "100% Tested" probe cards. ProbeLogic has the shortest turn-times and the most cost effective test solutions in the industry.



Devices

Mixed Signal/ RF	WiFi, Cell Phone, Tele Com
Pad Configuration	Single, Staggered, Dual In-line
Pad Pitch/Size (See Applications Note: 'Epoxy RF Probe Pad Guidelines')	RF Pad Pitch: ≥ 60u Standard Pad Pitch: ≥ 60u Pad Width: ≥ 55u Length: ≥ 60u
Pad Material	Gold Pads, Gold Bumps, Aluminum, Copper (or Industry Standard)
Test Frequency of Ring	Up to 3.5 GHz

Ring Assembly

Probe Ring	Custom Designed Proprietary Metal
Probe Material	Rhenium Tungsten, Beryllium-Copper
Testing Temperature	25°C to 125°C
Probe Diameter	3.5 mils to 10 mils
Tip Diameter	0.7 mils to 5 mils
Tip Shape	Flat, Etching, or Radius
Tip Length	7 mils (or Build to Customer Spec.)
Contact Resistance	<2.0 ohms
Alignment	+/- 0.2 mils
Planarity	+/- 0.2 mils
Probe Depth	100 mils to 400 mils (Measured from bottom of PCB)
Contact Force	> 0.8 gm/mils.

PCB/Components

PCB Material	FR4, Polyimide, Getek, Rogers
PCB Design	Custom per Device for Maximum Performance
RF Connectors	SMA, SMP, or other customer specified
ATE Type	All ATE's supporting RF

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