



news & updates November 2025 | Issue 63

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CEO's Corner

High-speed digital designs demand precision. Traditional probes can distort signals and affect measurements. Engineers need reliable tools for accurate data. High bandwidth active probes are usually very expensive since they are usually active devices, needing to be powered. Our Swedish supplier Senseapeek has come up with a much more economical solution in their SQG probes – in 1.gGHz, 3.0GHz, and 6.0GHz versions.

Read on for more ...

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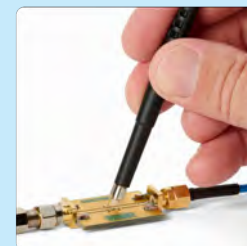
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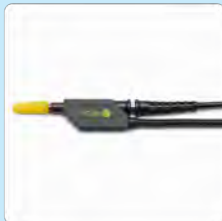
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Introducing the Sensepeek SQG Probe

Meet the Sensepeek SQG Passive 6GHz Probe series of passive high-frequency hands-free oscilloscope probes, designed for both AC and DC GHz applications. When used with Sensepeek baseplates or handheld, this groundbreaking series enables engineers to perform measurements up to 6GHz economically and without the need to solder connections to the test PCB.



Maintaining measurement signal integrity is crucial, and the SQG-series has exceptionally low probe-tip capacitance, which minimizes loading and signal distortion for sensitive circuits. Measuring high data rate signals is now economical and precise with these passive probes that offer a flat frequency response over a wide frequency range. The series is available as either AC or DC-coupled probes for precise signal integrity measurements across a wide range of uses. Other low-impedance probes can load the signal being probed, reducing its amplitude. For DC biased signals, these inferior probes can source or sink current from the signal source, potentially affecting the operating bias of sensitive devices. But by reducing the probe's loading effect and ensuring consistent broadband performance, waveforms and their spectral content and phase are not adversely affected by SQG probes.



The six members of the Sensepeek SQG 10:1 passive probe series are: 1.5GHz: SQG15-AC / SQG15-DC – 1.5 GHz; 3.0GHz: SQG30-AC / SQG30-DC; 6.0GHz: SQG60-AC / SQG60-DC. The SQG-series is suitable for use with any 50 ohm input measurement instrument, including: oscilloscopes, spectrum and network analyzers, receivers, power meters, etc.

The SQG-series is ready-to-go straight out of the box. They include exchangeable fine-pitch spring-tipped test needles, ensuring reliable contact with small or delicate components. The dual ground options, a dual needle ground with a 2.3mm tip pitch, perfect for PCB-mounted RF connectors, and a solid single ground with a 6.5mm tip pitch, designed for when ground points are farther away, make this probe adaptable to a wide variety of needs.



The SQG-series is the ideal solution for engineers looking for precision, stability, and ease of use in high-frequency measurements. For troubleshooting power integrity problems or analyzing signal fidelity in high-speed digital designs, Sensepeek's range of AC and DC-coupled probes offers the versatility and precision that high-frequency and electronics engineers demand. SQG probes are made in Sweden by Sensepeek AB. The probes are available now from their USA technical distributor [Saelig](#).

Click the image below to see a video of the Sensepeek probes:

Sensepeek SQG Probes
Maintaining Signal Integrity
Revolutionize Your Measurements

- Low Probe Tip Capacitance
Minimizes Distortion
- Accurate Measurements
No Loading Effects
- Flat Response
Wide Frequency Range

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