

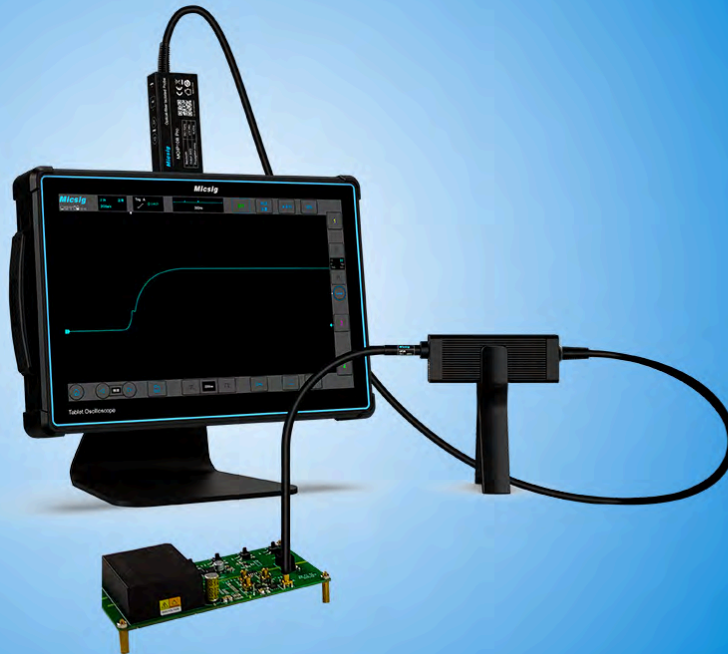


news & updates July 2026 | Issue 30

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Micsig

SigOFIT Gen 3 Series Optically Isolated Probes



CEO's Corner

Micsig's third-generation [SigOFIT™ optically isolated probes](#) are engineered for accurate, high-bandwidth measurements in demanding power electronics applications. With bandwidth options from 200 MHz to 1 GHz, differential measurement capability from ± 0.01 V to ± 20 kV, and exceptionally high common-mode rejection, the series is ideal for evaluating fast-switching SiC and GaN devices.

The [SigOFIT Gen 3 Series](#) also delivers isolation voltage up to 85 kV and an ultra-low noise floor of less than 0.3 mVrms, helping engineers capture small signals in high-voltage environments with greater confidence.

Micsig SigOFIT Gen 3 optically isolated probes are available from Saelig Company, Inc., an authorized distributor of advanced electronic test and measurement equipment.

Alan Lowne
CEO, Saelig Company Inc.

What's New?

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Saelig Website



"I founded Saelig in 1988 to search the world for unique electronic control and instrumentation equipment including economical oscilloscopes, PC and RF spectrum analyzers, USB and logic analyzers, RFIC, pure RF sources, DMMs, data loggers, DA and DAC controllers, PCB test, high-voltage industrial panel PCs, EM enclosures, USB-to-serial converter cables, etc."

Our satisfied customers include Intel, Apple, Philips, Matsushita, NEC, TI, Harris, Sony, RF General Dynamics, Raytheon, General Motors, many other Fortune 500 companies, military, educational institutions, hospitals, individual end-users, students, hobbyists, etc."



Micsig MHO3 Series 500MHz High Resolution Oscilloscope

- 12-bit vertical resolution
- Supports multi-channel data simultaneous saving
- Noise <80µVrms, captures weak signals accurately
- Segmented storage function, up to 10000 segments
- 3.58cm ultra-thin design, supports wall mount interface
- Patented Mic-OPE™ probe interface, auto-adjust probe compensation



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Micsig SigOFIT Gen 3 Series Optically Isolated Probes offer bandwidths of up to 1GHz and common mode rejection ratio (CMRR) of 108dB at 1GHz, enabling highly accurate differential measurements to be made in demanding high-voltage and high-frequency applications. The Gen 3 Series represents the latest generation of Micsig optically isolated probes, designed to deliver excellent measurement accuracy, safety, and reliability. Utilizing Micsig's innovative SigOFIT™ technology and laser-powered optical transmission, these probes provide complete galvanic isolation between the oscilloscope and the device under test, significantly reducing interference from common-mode voltages while ensuring uninterrupted high-precision measurements. Equipped with a standard BNC interface, these probes can work with oscilloscopes of all makes.



Models in the range offer bandwidths ranging from 200 MHz to 1GHz with a gain accuracy of 1% at DC and noise suppression below 0.3mV RMS, enabling reliable analysis of even the smallest signal variations. The SigOFIT Gen 3 Series Probes accurately capture differential signals even in the presence of strong common-mode voltages. This

makes the probes ideally suited for applications involving power electronics, motor drives, inverters, DC/DC converters, electronic ballasts, and advanced GaN and SiC semiconductor devices.

The SigOFIT platform supports a wide range of interchangeable attenuators, enabling differential-mode measurements from ± 0.01 V up to ± 20 kV. For low-voltage applications, the probe can also be used without an attenuation tip by connecting an SMA adapter directly to the probe. In this configuration, the probe utilizes an internal attenuation ratio of 2:1, making it suitable for accurate small-signal measurements while maintaining the benefits of optical isolation technology. Unlike traditional differential probes that can only test high-voltage signals, SigOFIT probes can be used with different attenuator tips to test differential mode signals from ± 0.01 V to ± 6250 V, achieving a full-range output and very high signal-to-noise ratio.



The [SigOFIT Gen 3 Series](#) eliminate the need for routine calibration and auto-zero procedures. Powered by Micsig's exclusive ADHOMT hybrid laser modulation technology, its advanced optical architecture ensures excellent temperature stability with virtually no temperature drift, maintaining measurement accuracy during extended testing sessions and changing environmental conditions.

Applications include power electronics development, inverter testing, high-voltage safety verification, semiconductor characterization, IGBT, SiC, and GaN switching analysis, 800V EV platforms, OBC, DC fast charging, three-phase inverter bridges, EMI tests and advanced R&D applications where high bandwidth, high isolation, and superior signal integrity are essential.

Made by Shenzhen-based Micsig Technology, a leading provider of battery-powered portable and handheld oscilloscopes since 2004, the [SigOFIT Gen 3 Series Optically Isolated Probes](#) are available now from their USA technical distributor Saelig Company, Inc. For detailed specifications, free technical assistance, or additional information, please contact (toll-free in the US) **1-888-7SAELIG**, via email: info@saelig.com, or visit www.saelig.com.

**To view a short video on the
sigOFIT Gen 3 probe,
click the image on the right >**



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