

SigOFIT™

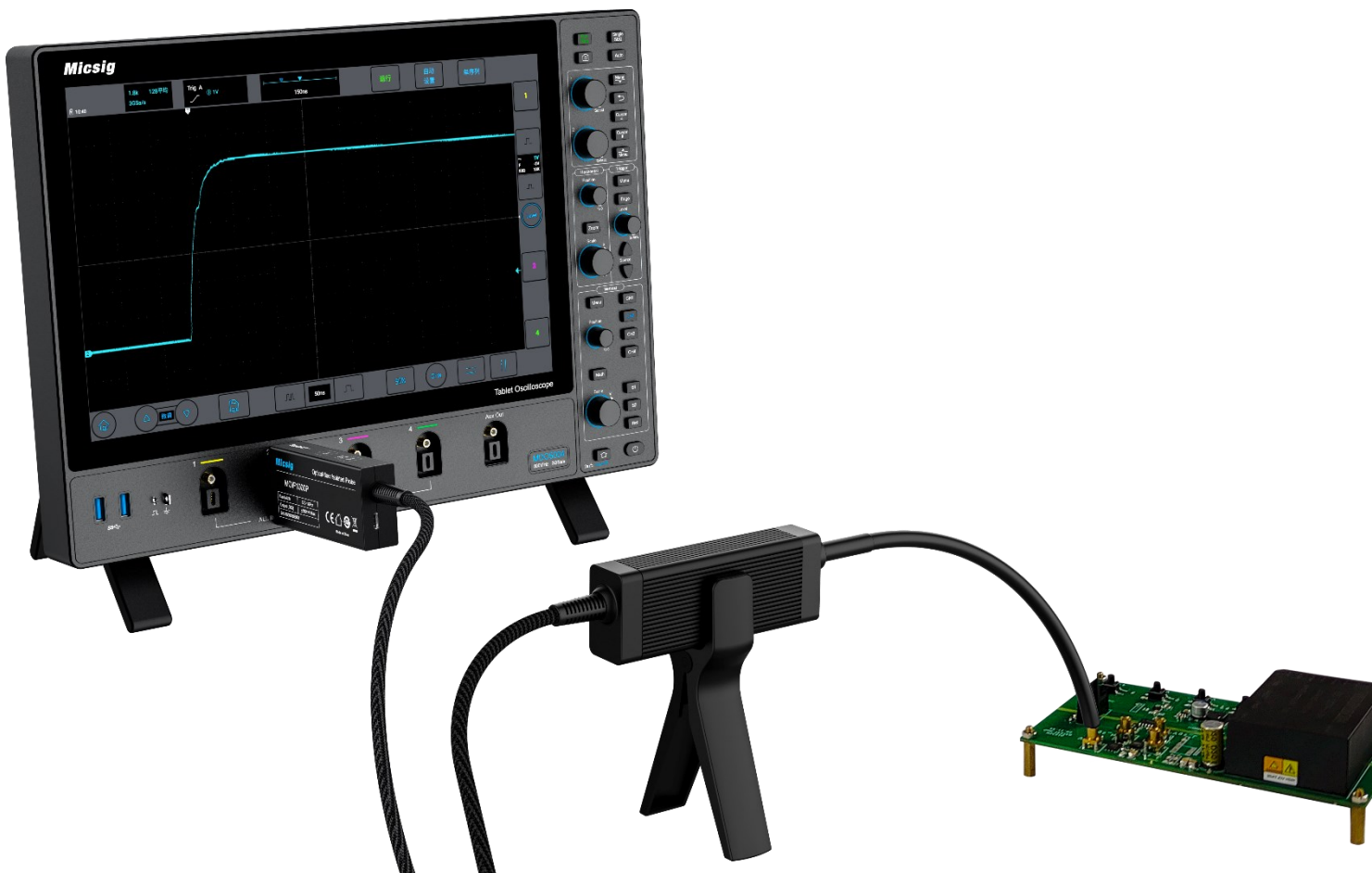
Optical-fiber Isolated Probe

Unveil Real Signal You've Never Seen

Based on Micsig's exclusive SigOFIT™ technology, the SigOFIT optical-fiber isolated probe has extremely high CMRR and isolation voltage, unveils the whole truth of the signal within bandwidth range, it adopts advanced laser power supply technology, perfectly solves the problem of isolated power supply.

Applications:

- Design of motor drive, power converter, electronic ballast
- Design & analysis of GaN, SiC, IGBT Half/Full bridge devices
- Design of inverter, UPS and switching power supply
- Safety test for high voltage, high bandwidth applications
- Power device evaluation
- Current shunt measurements
- EMI & ESD troubleshooting
- Floating measurements



Key Features:



■ Differential Probe ■ SigOFIT Probe

Present True Signal

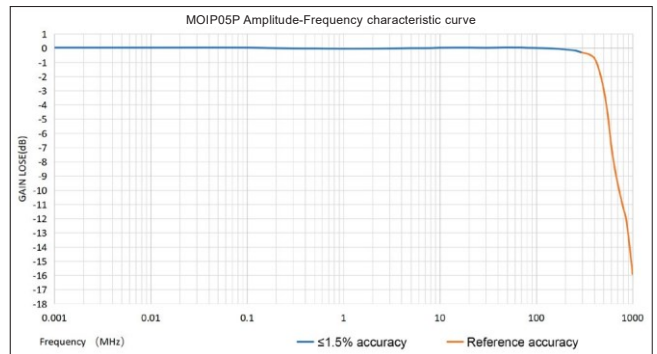
- SigOFIT probe delivers highest CMRR: over 128dB at 100MHz, up to 108dB at 1GHz. It's the ultimate referee of signal fidelity measured by other voltage probes.

Best Probe for Third-Gen Semiconductor

- Device like SiC and GaN can switch high voltages in a few nanoseconds, containing very high-energy high-frequency harmonics. Even at the highest bandwidth, the SigOFIT probe still have over 100dB CMRR in max. bandwidth, perfectly suppress oscillation caused by high- frequency common-mode noise, it's the best choice for third-generation semiconductor test and measurement.

Highest Accuracy

- SigOFIT probe has excellent amplitude-frequency characteristics. DC gain accuracy $\leq 1\%$, while noise $\leq 0.45\text{mVrms}$. Zero drift $< 0.1\%$ (works 5 mins later), gain drift also $< 1\%$.



10X ~ 5000X

Safe to Test Gallium Nitride (GaN)

- The test leads of SigOFIT probe are short and with coaxial cable transmission, has less than 2.5pF input capacitance, very safe to test GaN.

Wide Measurement Range

- Unlike traditional differential probes can only test high-voltage signals, the SigOFIT probe can be used with different attenuator tips to test differential mode signals from $\pm 0.1\text{V}$ to $\pm 5000\text{V}$, achieving full-range output and very high signal-to-noise ratio.

Compact & Simple

- Smaller size than traditional differential probes, more accurate probe tips, makes it much easier and flexible to use.

Efficient & Affordable

- Fastest response, can be tested immediately after power-on, AutoZero in less than 1 second, ensures accurate signal output in real time.



Specifications:

Model & Ordering Name	MOIP01P	MOIP02P	MOIP03P	MOIP05P	MOIP08P	MOIP10P
Bandwidth	100MHz	200 MHz	350 MHz	500 MHz	800 MHz	1 GHz
Rise time	≤3.5ns	≤1.75n	≤1ns	≤700ps	≤438ps	≤350ps
CMRR	DC: 180dB 100MHz: 128dB	DC: 180dB 200MHz: 122dB	DC: 180dB 350MHz: 118dB	DC: 180dB 500MHz: 114dB	DC: 180dB 800MHz: 110dB	DC: 180dB 1GHz: 108dB
Output Voltage Range	±2.5V	±2.5V	±1.25V	±500mV	±500mV	±500mV
Noise	<1.46mVrms			<450μVrms		
SMA Input Impedance	1MΩ 10pF					
Propagation delay	15.42ns (2m fiber length)			16ns (2m fiber length)		
Power supply	USB Type-C, DC: 5V					
DC Gain accuracy	1%					
Common mode voltage range	60kVpk					
Fiber cable length	2m (Customizable)					

Attenuating tips

Model No.	Standard Tip(s)	Optional Tip(s)
MOIP01P	OP10-2	OP20-2, OP500-2, OP1000-2 *More on request
MOIP02P		
MOIP03P	OP20-3 OP1000-3	OP50-3, OP2000-3 *More on request
MOIP05P	OP50-5 OP2000-5	OP10-5, OP1000-5, OP5000-5 *More on request
MOIP08P	OP50-1G OP2000-1G	OP10-1G, OP1000-1G, OP5000-1G *More on request
MOIP10P		

* Refer to datasheet for more information

* Micsig reserves the right of final interpretation for the content hereinabove, it is subject to update without prior notice.

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