

SigOFIT Optical-fiber Isolated Probe MOIP Series

- Bandwidth: 100MHz-1GHz
- ► Differential Voltage Range: ±6250V
- Common Mode Voltage: 85kVpk
- ► CMRR: Up to 180dB
- ► DC Gain Accuracy: 1%
- ► Interface: Universal BNC



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Product Overview & Key Features

Based on exclusive SigOFIT ™ technology, the SigOFIT optical-fiber isolated probe has extremely high CMRR and isolation voltage, help to unveil the whole truth of the signal within bandwidth.



Differential Probe

SigOFIT Optical-fiber Isolated Probe

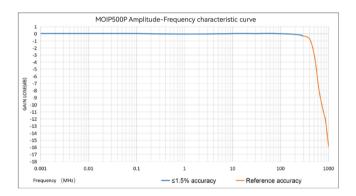
Present True Signal

• 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 0.45mVrms. Zero drift <0.1% (works 5 mins later), gain drift also <1%.



Support the switching between 0dB and 20dB

The SigOFIT optical isolation probe can be switched between 0dB (1X) and 20dB (100mX). Besides, different attenuators can be replaced to improve the signal-to-noise ratio, so that a single attenuator also has two range gears to improve the signal-tonoise ratio.



Safe to Test Gallium Nitride (GaN)

The test leads of SigOFIT probe are short and with coaxial cable transmission, the input capacitance is as low as 1pF minimum, very safe to test GaN.

20X / 50X / 100X / 200X / 1000X / 2000X / 5000X/ 10000X

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 ±0.01V to ±6250V, achieving full-range output and very high signal-tonoise ratio.

Compact & Simple

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

Efficient & Affordable

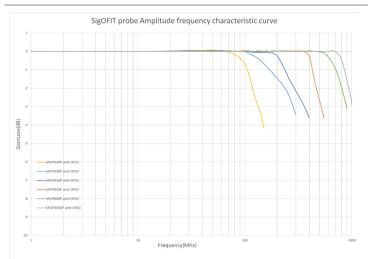
Fastest response, can be tested immediately after power-on, Auto Calibration in less than 1 second, ensures accurate signal output in real time.



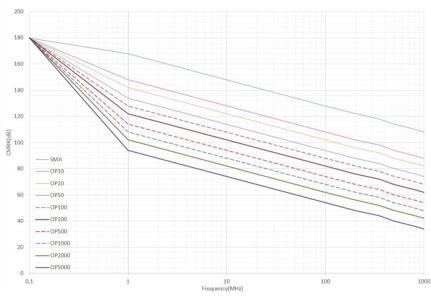
Specifications

Model	MOIP100P	MOIP200P	MOIP350P	MOIP500P	MOIP800P	MOIP1000P
Bandwidth	100MHz	200MHz	350MHz	500MHz	800MHz	1GHz
Rise time	≤ 3.5ns	≤ 1.75ns	≤ 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
Differential Voltage Range	Standard: OP20(MMCX), ±25V OP50(MMCX), ±62.5V OP200(MCX), ±250V OP1000(MCX), ±1250V OP2000(MCX), ±2500V OP5000(LCX), ±6250V		Standard: OP20(MMCX), ±25V OP1000(MCX), ±1250V Optional: OP50(MMCX), ±62.5V OP200(MCX), ±250V OP2000(MCX), ±2500V OP5000(LCX), ±6250V	Standard: OP50(MMCX), ±25V OP2000(MCX), ±1000V Optional: OP20(MMCX), ±10V OP100(MMCX), ±50V OP5000(MCX), ±2500V OP10000(LCX), ±5000V		V
Noise	<0.45mVrms			<0.45mVrms		
DC Gain Accuracy	1%					
Common Mode Voltage Range	85kVpk					
Power Supply	DC 12V					
Fiber cable length	2m (Customizable)					
Interface	Universal BNC					





▲ Amplitude-frequency characteristics of different SigOFIT probes



▲ CMRR of different types of attenuators (0dB) at various frequencies.

Applications

- * Design of motor drive, power converter, electronic ballast
- * Design 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

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