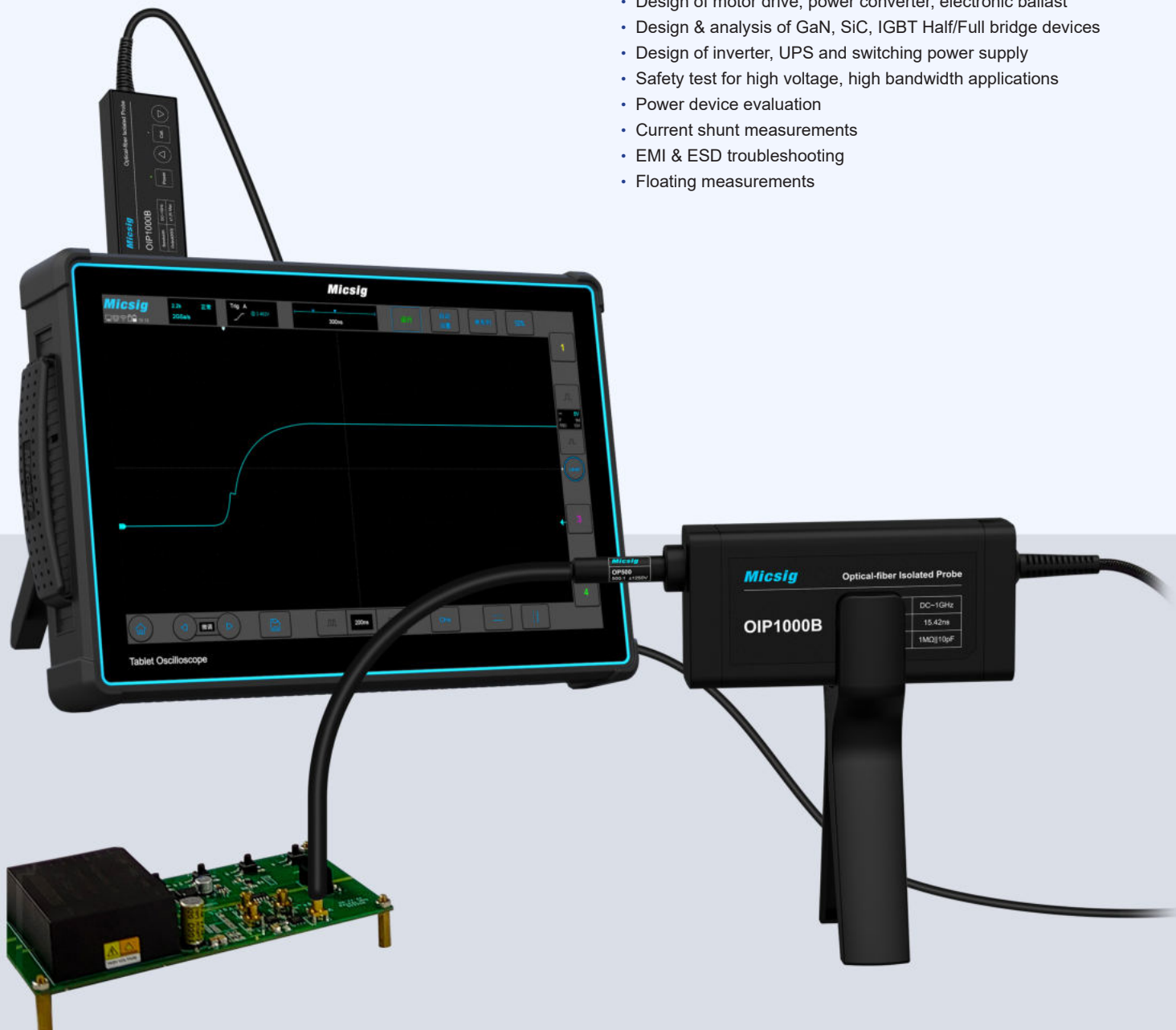


OIP Series Optical-fiber Isolated Probe Unveil Real Signal You've Never Seen

With Micsig's exclusive SigOFIT™ optical isolation technology, the OIP has extremely high common-mode rejection ratio and isolation voltage, shows the true signal at its full bandwidth. It's the ultimate referee of signal fidelity measured by other voltage probes.

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 ■ OIP probe

Present True Signal

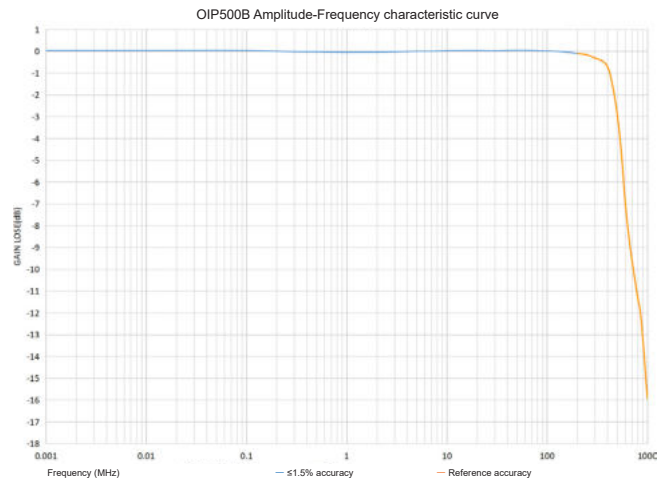
- OIP probes deliver highest CMRR and isolation voltage performance, with 1.41mVrms low noise, can get 1% measurement accuracy. It presents best signal fidelity within its bandwidth range, becomes the ultimate referee of signal fidelity measured by other voltage probes.

Best Probe for Third-Gen Semiconductor

- Device like SiC and GaN can switch high voltages in a few nanoseconds, contains high-energy high-frequency harmonics. Even at the highest bandwidth, the OIP probes still have nearly 100dB CMRR, perfectly suppress the oscillation caused by high-frequency common-mode noise, no redundant components, it's the best choice for third-generation semiconductor test and measurement.

Highest Accuracy

- OIP probe has excellent bandwidth flatness, ensures 1% test accuracy within 0.5 times of its bandwidth. Zero drift less than 50μV in 24 hours.



10X / 20X / 50X / 100X / 500X / 1000X

Safe to Test GaN

- The test leads of OIP probes are short and with coaxial cable transmission, has less than 3pF input capacitance, very safe to test GaN.

* When the working parameters of the device are already in the critical state of explosive, there will be nearly 3pF more capacitance added when connected to the DUT, safety is not guaranteed.

Wide Measurement Range

- Unlike traditional differential probes can only test high-voltage signals, the OIP probes can be used with different attenuator tips to test differential mode signals from ±1V to ±2500V, 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 more easier and flexible to use.

Efficient & Affordable

- Fastest response, can be tested immediately after power-on, no need to wait for warm-up, AutoZero in less than 1 second, ensures accurate signal output in real time.



Specifications:

Model	OIP100B	OIP200B	OIP350B	OIP500B	OIP1000B
Bandwidth	100MHz	200MHz	350MHz	500MHz	1GHz
Rise Time	≤3.5ns	≤1.75ns	≤1ns	≤ 700ps	≤ 350ps
Output Voltage	±2.5V		±1V		
Propagation Delay	15.42ns (2m cable length)				
Power Supply	USB Type-C; DC: 5V				
DC Gain Accuracy	1%				
Noise	<1.41mVrms				
Common Mode Voltage Range	60kVpk				
Battery Runtime	8 hours				
Cable Length	2m (Std.) / 10m (Opt.) (customizable)				

Attenuator Ratio, Input Impedance

Probe Tip	Attenuation Ratio	Input Impedance
SMA Input	1X	1MΩ 10pF
OP10 Input	10X	4.47MΩ 3.0pF
OP20 Input	20X	4.23MΩ 2.8pF
OP500 Input	500X	12.27MΩ 2.6pF
OP1000 Input	1000X	30.63MΩ 2.6pF

Common Mode Rejection Ratio (CMRR)

Probe Tip	DC	1MHz	100MHz	200MHz	350MHz	500MHz	1GHz
SMA	160dB	152dB	112dB	106dB	102dB	100dB	92dB
OP10	160dB	120dB	96dB	92dB	90dB	86dB	82dB
OP20	160dB	120dB	92dB	90dB	86dB	84dB	80dB
OP50	160dB	115dB	86dB	82dB	80dB	78dB	74dB
OP100	160dB	110dB	62dB	52dB	46dB	40dB	30dB
OP500	160dB	96dB	56dB	48dB	40dB	32dB	26dB
OP1000	160dB	90dB	50dB	42dB	34dB	26dB	20dB

Micsig

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