OIP3000 Series Optical Isolation Probes

"All the time, all the time you need"



±2500V

Max. Measurement Voltage

150MHz-1GHz

Bandwidth

Product Overview

The OIP3000 Series Optical Isolation Probe offers exceptionally high common-mode rejection ratio and isolation voltage, with minimal load effect and parasitic oscillation. It serves as the ultimate reference for verifying the accuracy of signals measured by other voltage probes.By transmitting signals via optical fiber, it achieves complete optoelectronic isolation, allowing the probe to float independently under high common-mode voltage.

Key Features

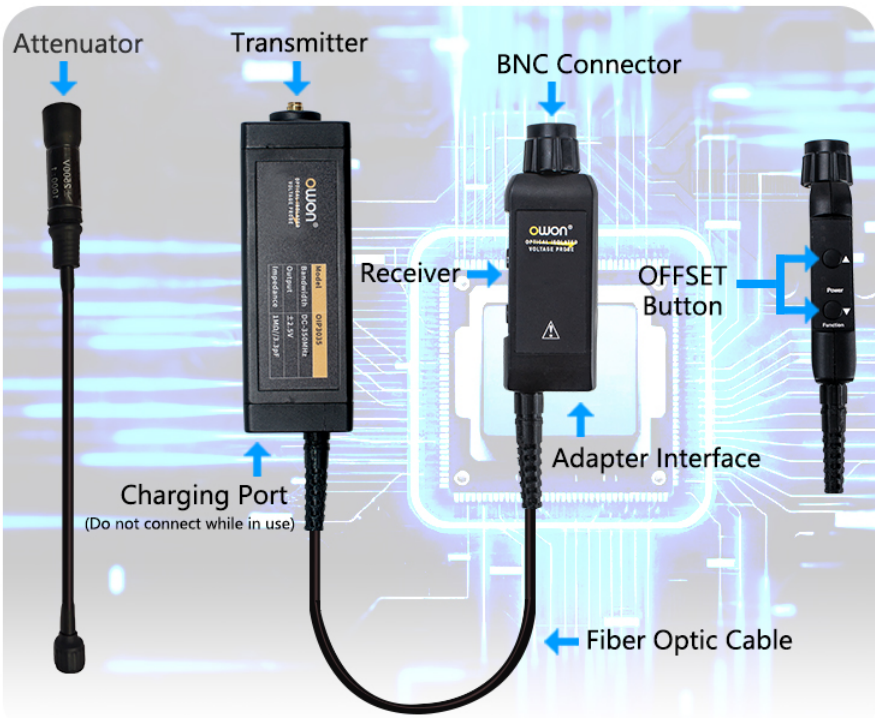
+ Common-mode isolation voltage up to 60kVpk
+ Supports input voltage ranges from 25V to 2500V via interchangeable attenuators, meeting diverse measurement needs
+ ±1.5% accuracy across the effective bandwidth; DC gain accuracy better than 1%
+ Fast response, ready to measure instantly without warm-up, delivering real-time precision signals

Application Scenarios

+ Ideal for R&D, debugging, and diagnostics of GaN/SiC devices, MOSFET, IGBT, switch-mode power supplies, motor drives, renewable energy inverters, variable frequency drives, lighting power supplies, and home appliances
+ High-frequency current measurements in non-grounded systems
+ Isolated measurement of high-voltage electrical signals
+ High-bandwidth voltage signal measurement
+ Floating signal testing

Product Details

"Digital optical isolation, zero delay, lossless signal"



Operation

"Completely eliminates ground loop interference"



Specification

"More accurate than traditional probes, safer than differential probes！"

Model	OIP3015	OIP3035	OIP3050	OIP3080	OIP3100
Bandwidth	DC-150MHz	DC-350MHz	DC-500MHz	DC-800MHz	DC-1GHz
Rise Time	2.3ns	1ns	0.7ns	0.43ns	0.35ns
Output Voltage	±2.5V	±2.5V	±1.25V	±0.5V	±0.5V
Isolation Voltage	60kV				
Accuracy	1% (typical)				
Measurement Voltage Range	10X (Standard) :±25V 20X (optional) :±50V 50X (optional) :±125V 100X (optional) :±250V 500X (optional) :±1250V 1000X (optional) :±2500V		10X (Standard) :±12.5V 100X (optional) :±125V 1000X (optional) :±1250V 2000X (optional) :±2500V	10X (Standard) :±5V 100X (optional) :±50V 1000X (optional) :±500V 5000X (optional) :±2500V	
Noise	40mV				
Terminating Impedance	1MΩ	1MΩ	50Ω	50Ω	50Ω
Operating Temperature	0~40℃				
Operating Humidity	≤85% RH				
Fiber Optic Cable Length	≈2m				
Power	Transmitter battery-powered with approx. 8 hours operating time and 30 days standby time; Receiver USB 5V/2A or adapter-powered				

Specifications subject to change without prior notice.

Accessories

Standard accessories	Order NO.
USB Power Adapter	----
Probe Holder	---
MCX Female Connector and Coaxial Cable	---
Probe Carrying Case	---
OIP3015 (150MHz), OIP3035 (350MHz) 10X Attenuator	OPA3-10-1
OIP3050 (500MHz) 10X Attenuator	OPA3-10-5
OIP3080 (800MHz), OIP3100 (1GHz) 10X Attenuator	OPA3-10-8
Optional accessories	**Order No.**
OIP3015 (150MHz), OIP3035 (350MHz) 20X Attenuator	OPA3-20-1
OIP3015 (150MHz), OIP3035 (350MHz) 50X Attenuator	OPA3-50-1
OIP3015 (150MHz), OIP3035 (350MHz) 100X Attenuator	OPA3-100-1
OIP3015 (150MHz), OIP3035 (350MHz) 500X Attenuator	OPA3-500-1
OIP3015 (150MHz), OIP3035 (350MHz) 1000X Attenuator	OPA3-1000-1
OIP3050 (500MHz) 100X Attenuator	OPA3-100-5
OIP3050 (500MHz) 1000X Attenuator	OPA3-1000-5
OIP3050 (500MHz) 2000X Attenuator	OPA3-2000-5
OIP3080 (800MHz), OIP3100 (1GHz) 100X Attenuator	OPA3-100-8
OIP3080 (800MHz), OIP3100 (1GHz) 1000X Attenuator	OPA3-1000-8
OIP3080 (800MHz), OIP3100 (1GHz) 5000X Attenuator	OPA3-5000-8

Accessory List

Standard



box





USB Type-C charging kit



OPA3-10 Attenuators 10×



MCX coaxial cable



MCX Socket



Overhead brackets

Optional



OPA3-20 Attenuators 20×



OPA3-100 Attenuators 100×



OPA3-1000 Attenuators 1000×



OPA3-1000 Connect the wires



OPA3-20 Attenuators 50×



OPA3-100 Attenuators 500×



OPA3-2000 Attenuators 1000×



OPA3-2000 Connect the wires