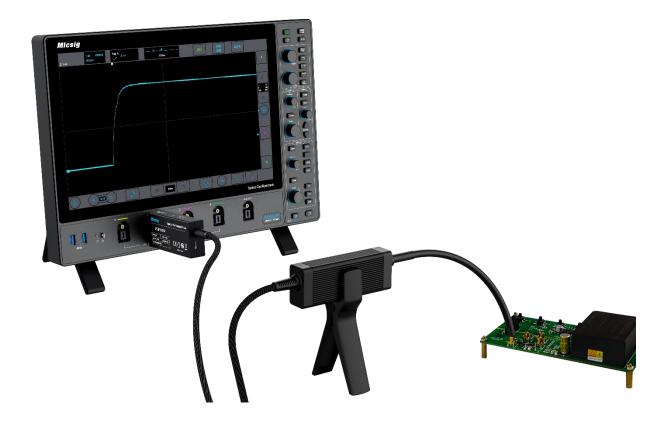


SigOFIT™

Optical-Fiber Isolated Probe

USER MANUAL



Version: V1.6

Preface

The information provided in this document is provided "as is" and is subject to change without notice in future

editions. Further, to the fullest extent permissible pursuant to applicable law, Micsig disclaims all warranties,

express or implied, with respect to this manual and any information contained herein, including, but not limited to,

the implied warranties of merchantability and fitness for a particular purpose. Micsig shall not be liable for errors or

for incidental or consequential damages arising out of the furnishing, use or application of this document or any

information contained herein.

If a separate written agreement has been entered into between Micsig and the User that contains warranty

provisions covering the contents of this document and the warranty provisions conflict with those provisions, the

warranty provisions in the separate agreement shall prevail.

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Warranty

Micsig warrants that this product will be free from defects in materials and workmanship for a period of one (1) year from the date of shipment. If any such product proves defective in materials or workmanship during this warranty period, Micsig, at its option, either will repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product. Parts, modules and replacement products used by Micsig for warranty work may be new or reconditioned to like new performance. All replaced parts, modules and products become the property of Micsig.

Standard accessories are NOT covered in main body warranty.

The bending radius of the optical isolation probe must not be less than 8cm, otherwise it will lead to fiber breakage. Damage to the fiber cable is NOT covered by the warranty.

The warranty will be void in the following cases, but repair services are provided free of labor charges and only parts are charged:

- a. Damage to any accessory caused by improper use, maintenance, or storage by the consumer.
- b. Damage caused by force majeure factors, such as natural disasters, etc.

Micsig will refuse to provide repair service or provide repair service for a fee in the following cases:

- a. Unable to provide product packaging or anti-counterfeit labels on product packaging.
- b. The content of the security label is altered, or blurred and unrecognizable.
- c. Disassembled by any person not authorized by Micsig. (e.g., changing wires, disassembling internal components, etc.)
- d. No sales voucher or sales voucher content does not match the product.

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General Safety Summary

Please read the following safety precautions carefully to avoid personal injury and to prevent damage to this product or any equipment connected to this product.

To avoid possible hazards, be sure to use this product in accordance with the regulations.

Products are only available to personnel with relevant technical training.

To avoid fire or personal injury

Connect and disconnect the equipment properly.

- Only use the testing wires and accessories that are provided with the product or specified by Micsig.
- Before connecting the probe to the circuit under test, connect the probe output terminal to the oscilloscope.
- When connecting to the powered circuits recommended in this manual, maintain a safe distance from the power-optical converter and attenuator.
- Disconnect the power to the circuit under test before connecting or disconnecting the probe.
- Before disconnecting the probe from the oscilloscope, first disconnect the probe input terminal from the circuit under test.

Observe all terminal ratings.

To avoid fire or shock hazard, observe all rating and markings on the product. Consult the product manual for further ratings information before making connections to the product. Do not apply a potential lowest that exceeds the maximum rating.

Do not operate without covers.

Do not operate this product with covers or panels removed. Hazardous voltage exposure is possible.

Do not operate with suspected failures.

If you suspect that there is damage to this product, have it inspected by qualified service personnel.

Disable the product if it is damaged. Contact Micsig's designated service personnel to conduct the inspection.

Avoid exposed circuitry. Do not touch exposed connections and components when power is present.

Do not operate in an explosive atmosphere.

Keep product surfaces clean and dry.

Clean with a dry cloth only.

Terms in this manual.

The following terms may appear in this manual:

Warning: Indicating conditions or practices that could result in injury or loss of life.

CAUTION: Indicating conditions or practices that could result in damage to this product or other property.

Maintenance Safety Summary

Only qualified maintenance personnel with the relevant qualifications may perform maintenance operations. Please read the "Maintenance Safety Summary" and "General Safety Summary" before performing any maintenance operations.

Do not make repairs alone: Do not make internal repairs or adjustments to this product unless there is someone on site who can provide first aid and resuscitation measures.

Disconnect the power supply: To avoid electric shock, disconnect the power supply of the equipment first, and then disconnect the power cord from the main power supply.

Caution when servicing with electricity: Dangerous voltages or currents may be present in this product.

Disconnect the power and test leads before removing the protective panel and performing soldering or component replacement.

To avoid electric shock, do not touch the exposed connectors.

Compliance Information

This section lists the Safety and Environmental standards with which the instrument complies. This product is intended for use by professionals and trained personnel only; it is not designed for use in households or by children.

Equipment type

Test and measuring equipment.

Pollution level description

A measure of the contaminants that could occur in the environment around and within a product. Typically, the internal environment inside a product is considered to be the same as the external. Products should be used only in the environment for which they are rated.

- Pollution Degree 1. No pollution or only dry, nonconductive pollution occurs. Products in this category are generally encapsulated, hermetically sealed, or located in clean rooms.
- Pollution Degree 2. Normally only dry, nonconductive pollution occurs. Occasionally a temporary conductivity
 that is caused by condensation must be expected. This location is a typical office/home environment.
 Temporary condensation occurs only when the product is out of service.
- Pollution Degree 3. Conductive pollution, or dry, nonconductive pollution that becomes conductive due to
 condensation. These are sheltered locations where neither temperature nor humidity is controlled. The area is
 protected from direct sunshine, rain, or direct wind.
- Pollution Degree 4. Pollution that generates persistent conductivity through conductive dust, rain, or snow.
 Typical outdoor locations.

Pollution degree rating

Pollution degree 2.

Overvoltage category descriptions

The overvoltage category is classified according to IEC60664 standard and is divided into four classes CAT I, CAT II, CAT III and CAT IV.

- Category I. Circuits not directly connected to a mains supply.
- Category II. Circuits directly connected to the building wiring at utilization points (socket outlets and similar points).
- Category III. In the building wiring and distribution system.
- Category IV. At the source of the electrical supply to the building.

Overvoltage category

Overvoltage category II

Environmental Notes

This section provides information about the environmental impact of the product.

Product end-of-life handling

When recycling instruments or components, observe the following guidelines:

Equipment Recycling: Production of this equipment required the extraction and use of natural resources. The equipment may contain substances that could be harmful to the environment or human health if improperly handled at the product's end of life. To avoid release of such substances into the environment and to reduce the use of natural resources, we encourage you to recycle this product in an appropriate system that will ensure that most of the materials are reused or recycled appropriately.



This symbol indicates that the product complies with the relevant requirements of the EU Directives 2012/96/EC and 2006/66/EC on Waste Electrical and Electronic Equipment (WEEE) and Batteries.

Introduction

The Micsig SigOFITTM optical-fiber isolated probe offers a galvanically isolated measurement solution for accurately resolving high bandwidth, high voltage differential signals in the presence of large common mode voltages with the excellent common mode rejection capability within its bandwidth range.

Key Features:

- Exclusive SigOFIT ™ optical isolation technology, common mode voltage up to 85kVpk.
- Differential voltages range 100mV-5000Vpk (attenuating tip dependent)
- CMRR up to 128dB at 100MHz and up to 108dB at 1GHz
- 1% accuracy at DC Gain, 1.5% accuracy within effective bandwidth range
- Fast response, calibration in 1 second, delivers accurate signal output in real time

Applications:

- Power device evaluation, current parallel measurement, EMI and ESD troubleshooting
- Motor drive design, power converter design, electronic ballast design
- Design and analysis of GaN, SiC, IGBT half/full bridge devices
- Tests of inverters, UPS and switching power supplies
- Safety isolation test for high voltage, high bandwidth applications
- Wide voltage, wide band test applications
- Floating measurements

Probe description

Optical-Electrical Converter

The Optical-Electrical Converter (O-E Converter herein after) can restore the optical signal transmitted by the Electrical-Optical converter (E-O Converter herein after) to an electrical signal and input to the oscilloscope. The buttons on the O-E converter are to control the probe and the LEDs indicate the operating status of the probe.



▲ Button panel of MOIP01P, MOIP02P, MOIP03P

▲ Button panel of MOIP05P, MOIP08P, MOIP10P

Optical-Electrical Converter (O-E Converter)

Button Description:

Button: Cali. (on MOIP01P, MOIP02P, MOIP03P only)

Short press to start Auto calibration, calibration time is usually less than 1 second, no need to wait. During calibration, no need to disconnect the test connection. LED will flash during calibration, the buzzer sounds one time indicates a successful calibration, three times indicates a failed calibration, press Cali. button again if failed.

Button: " \triangle " & " ∇ " (on MOIP01P, MOIP02P, MOIP03P)

Manually adjust the Zero point (normally no adjustment is required).

Button: Gain (on MOIP05P, MOIP08P, MOIP10P only)

Short press "Gain" to switch between 0dB and 20dB. The attenuation factor of the attenuator is not fixed, the corresponding attenuation factor needs to be set according to the indicator light.



!\ Over-voltage Alert

When Gain (Power) button flashes rapidly and hearing a rapid "DiDiDiDi..." buzzer sound, it means the input voltage is out of range, please select a suitable attenuating tip.



Over-heating Warning:

When hearing a "DiDi" sound every 2 seconds, it means the temperature of the Optical-Electrical (O-E) converter is overheated, please check whether the dissipation port is blocked.

Electrical-Optical Converter

The Electrical-Optical (E-O) converter converts the electrical signal from device under test into an optical signal and transmits it via optic fiber to the Optical-Electrical (O-E) converter.

The E-O converter of SigOFIT probe is powered over fiber, no additional power supply required.



Electrical-Optical Converter

E-O converter attenuating tips

Attenuating tip options on E-O converter end:

Photo	Description	Model name
	Attenuation ratio of 10:1	OP10
	Attenuation ratio of 20:1	OP20
	Attenuation ratio of 50:1	OP50
e e	Attenuation ratio of 100:1	OP100
	Attenuation ratio of 200:1	OP200
	Attenuation ratio of 500:1	OP500
	Attenuation ratio of 1000:1	OP1000
	Attenuation ratio of 2000:1	OP2000
	Attenuation ratio of 5000:1	OP5000

Install the attenuating tip

As shown in the figure below, screw the attenuating tip into the E-O converter end till firmly tightened.



How to choose an attenuator:

Caution: Please select proper attenuator for the measurement to avoid damage to the Electrical-Optical converter or degradation of performance due to over-voltage.

Please select the attenuating tip with the lowest attenuation ratio allowed by the tested signal range.

The attenuator should be selected based on the peak voltage (or rms voltage) of the signal under test. Please refer to the technical specifications to select the appropriate attenuator.

Precaution requirements

Measurement System Precautions

SigOFIT probe contains high quality components and should be handled with care to avoid damage or degradation of performance due to improper handling. Please consider the following precautions when handling fiber optic cable and electrical-to-optical converter end connections:



- DO NOT excessively bend fiber-optic cable. Avoid tight radius (<8cm) bends, crushing, crimping, twisting, pulling or otherwise stressing cables.
- DO NOT block the heat dissipation port on the Optical-Electrical converter (or O-E Converter), otherwise the probe may be overheated and damaged.
- Do not put heavy objects on the fiber cable, such as running over with a chair.
- When disassembling and moving the probe, please hold the converter body by hand, do not lift or drag the cable.
- Accidental drop of the E-O or the O-E converter may result in damage to internal optical components.
- Please check damage to the fiber cable, (as shown below) please stop use when there is damage to the flexible braided cable or the soft rubber sheath.
- When not in use, store the SigOFIT probe in its factory fitted carrying case.

Environmental requirements

Features	Status	Environmental requirements
	Wanking	Optical-Electrical converter: 0° C ~ +40° C
Tammaratura	Working	Electrical-Optical converter: 0° C ~ +40° C
Temperature	Non-working	Optical-Electrical converter: -20° C ~ +70° C
	Non-working	Electrical-Optical converter: -20° C ~ +70° C
	Working	Optical-Electrical converter: 5% to 85% RH (relative humidity) below +30° C, non-condensing
I I was i diter		Electrical-Optical converter: 5% to 85% RH (relative humidity) below +40° C; 5% to 45% RH at +40° C \sim +50° C, non-condensing
Humidity	Nag wanking	Optical-Electrical converter: 5% to 85% RH below +40° C; 5% to 45% RH at +40° C \sim +85° C, non-condensing
	Non-working	Electrical-Optical converter: 5% to 85% RH below +40° C; 5% to 45% RH at +40° C \sim +85° C, non-condensing
Altitude	Working	3000 meters
Annude	Non-working	12,000 meters

Safety requirements

The high common-mode voltage range of SigOFIT optically isolated probe can be applied to measurements where high-frequency and high-voltage common-mode signals are present. Please read and understand all precautions when measuring with this product.

Warning: Electric shocks may occur when using this measurement system. The system is used to isolate the personnel from dangerous input voltages (common voltage); the plastic housing of the Electrical-Optical converter and the shielding of the attenuator do not provide safe isolation.

Keep a safe distance from the Electrical-Optical converter and the attenuator when the measurement system is connected to an energized circuit as recommended in this manual. When making measurements on energized circuits, do not touch radio frequency burn hazard area.

Safe distance from electro-optical converters and attenuators when measuring high-voltage common-mode signals:

Common model voltage (AC)	10kV or below	$10~kV\sim35~kV$	> 35 kV
Safe distance	>0.7m	>1m	>1.5m



Warning: Do not disassemble the electrical-optical converter or the optical-electrical converter. They contain a laser source which may result in laser exposure.

Warning: To avoid the risk of electric shock, do not connect the measurement system directly to an energized circuit. Always disconnect the test circuit before installing or removing the attenuating tip from the test circuit. The plastic housing the converter and the shielded end of the attenuator do not provide isolation.

Warning: To avoid the risk of electric shock or RF burn when the circuit under test is energized, do not touch the electrical-optical converter and its attenuator while testing. Always maintain a distance of 1 meter or more from the electrical-optical converter during the test. Be sure to review the instrument's maximum ratings and derating curves for more information on RF burn areas.

Warning: To avoid possible damage to the device, do not connect the probe of the electrical-optical converter connection to a high impedance part of the circuit. Additional capacitance may cause damage to the circuit. Please connect the probe connected to the electrical-optical converter to the low impedance part of the circuit. Note:

Touching the electrical-optical converter or attenuator while measuring high frequency common mode signals will increase capacitive coupling and may reduce the common mode loading of the test circuit.

Warning: To prevent arc flash caused by different potentials, do not place the electrical-optical converter end attenuator in a circuit with different voltages.

Installation

Operation Steps

- 1. Connect the optical-electrical converter to the oscilloscope;
- 2. Set the oscilloscope input impedance to 50Ω , set the corresponding attenuation ratio and delay time;
- 3. Connect the attenuating tip to the electrical-optical converter;
- 4. Power the SigOFIT probe by connecting USB-C cable to O-E Converter using standard charger (localized), the E-O Converter will be powered on automatically, vice versa, when the O-E converter powered off, the E-O converter will be powered off simultaneously.

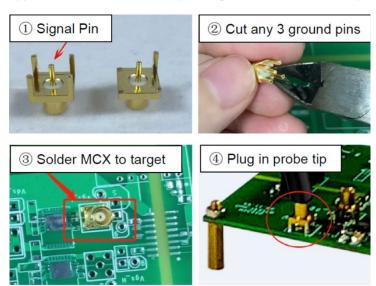




5. Solder the MCX connector to the test board.

Notice:

- 1) When testing Vgs signal, the signal pin (in the middle) of the MCX female connector must be connected to the G-end of the MOSFET;
- 2) Solder the MCX connector directly to the test point, try NOT to use extension lead, it may bring unsatisfactory test results.
- 3) For easy soldering, suggest to cut three of the four ground pins around the base (Figure below), just keep one.



- 6. Plug the attenuating tip to the MCX female socket;
- 7. Power ON the test board;
- 8. Adjust the oscilloscope settings and proceed normal test;

Auto calibration and manual Zero

The SigOFIT probe has auto-calibration function that automatically corrects the gain accuracy. Always press Cali. button to get better results before get final test readings. No need to disconnect the test during calibration. Auto calibration can be completed in 1 second.

The " \triangle " and " ∇ " buttons on the MOIP01P, MOIP02P, and MOIP03P can be used to manually adjust the Zero point, and generally no adjustment is required;

The MOIP05P, MOIP08P, and MOIP10P can be automatically calibrated right after power on, no need extra manual calibration.

Technical Specifications

All technical specifications are typical values unless otherwise indicated.

Technical specifications are valid when:

- Probe is calibrated at 23°C ±5°C ambient temperature
- Probe is powered by normal power supply
- The temperature, altitude, and humidity of the environment in which the probe is located cannot exceed the limits of the stated environmental requirements.

Electrical Characteristics

MOIP01P					
WIOIFUIF	MOIP02P	MOIP03P	MOIP05P	MOIP08P	MOIP10P
100MHz	200MHz	350MHz	500MHz	800MHz	1GHz
≤3.5ns	≤1.75n	≤1ns	≤700ps	≤438ps	≤350ps
DC: 180dB 100MHz: 128dB	DC: 180dB 200MHz: 122dB	DC: 180dB 350MHz: 118dB	DC: 180dB 500MHz: 114dB	DC: 180dB 800MHz: 110dB	DC: 180dB 1GHz: 108dB
±2.5V	±2.5V	±1.25V	±500mV	±500mV	±500mV
,	<1.46mVrms			<450µVrms	
15.42ns (2m fiber length) 16ns (2m fiber lengt				ns (2m fiber length	1)
DC: 12V 3A					
1%					
85kVpk					
2m (Customizable)					
0°C to 40°C (operating), -20°C to +70°C (non-operating)					
5% to 85% RH (non-condensing), 75% RH above 30°C, 45% RH above 40°C					
3000 m (operating), 12,000 m (non-operating)					
Indoor Use Only					
37*11*32.5 cm					
2.2KG					
	≤3.5ns DC: 180dB 100MHz: 128dB ±2.5V	≤3.5ns ≤1.75n DC: 180dB 100MHz: 128dB 200MHz: 122dB ±2.5V	≤3.5ns ≤1.75n ≤1ns DC: 180dB DC: 180dB DC: 180dB 100MHz: 128dB 200MHz: 122dB 350MHz: 118dB ±2.5V ±2.5V ±1.25V <1.46mVrms 15.42ns (2m fiber length) DC: 12 19 85kV 2m (Custo 0°C to 40°C (operating), -20° 5% to 85% RH (non-condensing), 75% 3000 m (operating), 12, Indoor Us 37*11*3	S3.5ns	≤3.5ns ≤1.75n ≤1ns ≤700ps ≤438ps DC: 180dB DC: 180dB DC: 180dB DC: 180dB 100MHz: 128dB 200MHz: 122dB 350MHz: 118dB 500MHz: 114dB 800MHz: 110dB ±2.5V ±2.5V ±1.25V ±500mV ±500mV <1.46mVrms <450μVrms 15.42ns (2m fiber length) 16ns (2m fiber length DC: 12V 3A 1% 85kVpk 2m (Customizable) 0°C to 40°C (operating), -20°C to +70°C (non-operating) 5% to 85% RH (non-condensing), 75% RH above 30°C, 45% RH above 40° 3000 m (operating), 12,000 m (non-operating) Indoor Use Only 37*11*32.5 cm

Attenuating tips

SigOFIT model	Atten. Tip model	Attenuation ratio	Voltage range	Non-destructive voltage (Max.)	Input impedance
	OP10-2	10:1	±25V	1500Vpp	10MΩ 2.5pF
MOIP01P &	OP20-2	20:1	±50V	1500Vpp	9.47MΩ 2pF
MOIP02P	OP500-2	500:1	±1250V	2500Vpp	12.28MΩ 1pF
	OP1000-2	1000:1	±2500V	3000Vpp	12.28MΩ 1pF
	OP20-5	20:1	±25V	1500Vpp	9.47MΩ 2pF
MOIP03P	OP50-5	50:1	±62.5V	1500Vpp	9.47MΩ 2pF
WOIFUSF	OP1000-5	1000:1	±1250V	3000Vpp	12.28MΩ 1pF
	OP2000-5	2000:1	±2500V	4800Vpp	30MΩ 1pF
	OP20-5	20:1 @0dB	±10V	1500\/nn	0.47MO 255
	UP20-5	2:1 @20dB	±1V	- 1500Vpp	9.47MΩ 2pF
	OD50 5	50:1 @0dB	±25V	4500)/55	0.47MO II 0=5
	OP50-5	5:1 @20dB	±2.5V	- 1500Vpp	9.47MΩ 2pF
MOIDOED	OP1000-5	1000:1 @0dB	±500V	2500∨pp	12.28MΩ 1pF
MOIP05P		100:1 @20dB	±50V		
	0000005	2000:1 @0dB	±1000V	3000Vpp	12.28MΩ 1pF
	OP2000-5	200:1 @20dB	±100V		
	OP5000-5	5000:1 @0dB	±2500V	4000) (*****	20140 11 4 2 5
		500:1 @20dB	±250V	4800Vpp	30MΩ 1pF
	0000 40	20:1 @0dB	±10V	4500) (****	0.47840 0 5
	OP20-1G	2:1 @20dB	±1V	- 1500Vpp	9.47MΩ 2pF
	0.050.40	50:1 @0dB	±25V	1500Vpp	9.47MΩ 2pF
	OP50-1G	5:1 @20dB	±2.5V		
MOIP08P &	05/000/0	1000:1 @0dB	±500V	05001	40.00140.11.4.5
MOIP10P	OP1000-1G	100:1 @20dB	±50V	- 2500Vpp	12.28MΩ 1pF
	OP2000-1G	2000:1 @0dB	±1000V	20001	40.00140.11.4. =
		200:1 @20dB	±100V	- 3000Vpp	12.28MΩ 1pF
		5000:1 @0dB	±2500V	400017	00146 !! 4 5
	OP5000-1G	500:1 @20dB	±250V	- 4800Vpp	30MΩ 1pF

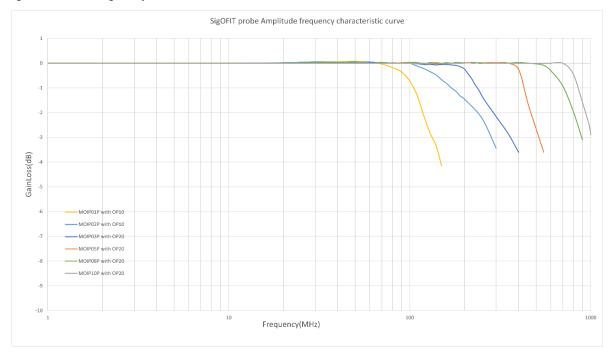
MCX adapters and coaxial lead

Accessory name	Withstand voltage range
MCX-adapter-2.54mm	< 300 Vpp
MCX-adapter-5.08mm	< 3000 Vpp
MCX coaxial lead	< 3000 Vpp

Mechanical characteristics

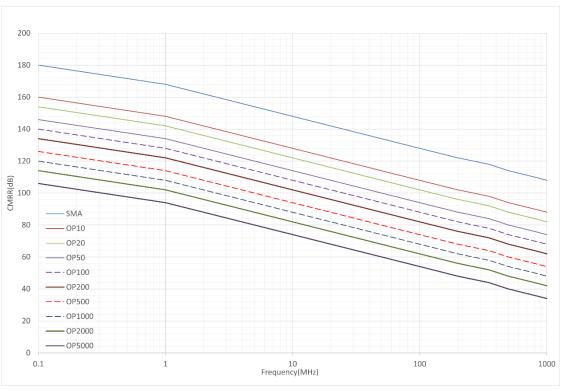
	Characteristics	Parameters
Section Sectio	Optical-Electrical (O-E) converter size	9.8 x 4.5 x 2.1 cm
	Electrical-Optical (E-O) converter size	11 x 4 x 2.3 cm
	Optical cable length	2m

Amplitude and frequency characteristics curve



 \blacktriangle Amplitude-frequency characteristics of different SigOFIT probes

Attenuating tip CMRR



▲ Common mode rejection capabilities of different attenuators (0dB) at various frequencies.

Maintenance Service

This section provides information on the maintenance of the SigOFIT probe.

Troubleshooting

The LED light indicate working states of the SigOFIT probe, if the Green light is not ON, possible problems that you might encounter when taking measurements. Use the tables as a quick troubleshooting reference before contacting Micsig for service.

Failure phenomenon	Possible causes and solutions
Signal amplitude does not match as expected	 The input signal may out of the oscilloscope display range Ensure that the input signal is within the range
DC measurement error exists	 Whether the oscilloscope or the probe itself has zero drift, please zero the equipment before measurement Check if the oscilloscope is on AC coupling Adjust the time base of the oscilloscope to more than 1ms DC measurement should observe the average value on the oscilloscope
Big noise, unable to accurately measure weak signal	 Select the probe with lower attenuation to connect the E-O converter Ensure the oscilloscope attenuation ratio is consistent with the SigOFIT probe Set the oscilloscope vertical scale to a smaller value Pay attention to the noise floor of the oscilloscope and the probe itself
No signal is captured and the waveform is a straight line at the zero point	 Check oscilloscope coupling settings Check whether the probe is powered on

Maintenance

Do not expose the probe to harsh weather conditions, the probe is not waterproof.

Note: The probe is not waterproof and to prevent damage to the probe, do not expose it to sprays, liquids or solvents. Avoid wetting the inside when performing exterior cleaning of the probe.

Do not wipe the probe with chemical cleaners.

Clean the outer surface of the probe with a dry, non-linting soft cloth or a soft bristle brush.

When not in use, store the SigOFIT probe in the suitcase provided by Micsig.

Ordering Information

Models

MOIP01P	Micsig SigOFIT 100MHz, Optical-fiber Isolated Probe, 2-meter cable
MOIP02P	Micsig SigOFIT 200MHz, Optical-fiber Isolated Probe, 2-meter cable
MOIP03P	Micsig SigOFIT 350MHz, Optical-fiber Isolated Probe, 2-meter cable
MOIP05P	Micsig SigOFIT 500MHz, Optical-fiber Isolated Probe, 2-meter cable
MOIP08P	Micsig SigOFIT 800MHz, Optical-fiber Isolated Probe, 2-meter cable
MOIP10P	Micsig SigOFIT 1GHz, Optical-fiber Isolated Probe, 2-meter cable

Standard Accessories

MCX connector (2.54mm) *5	Connecting SigOFIT and the circuit under test
MCX connector (5.08mm) *5	Connecting SigOFIT and the circuit under test
MCX coaxial cable *1	Connecting SigOFIT and the circuit under test
Carrying Case *1	Suitcase with EVA foam
Probe Mount *1	Bipod mount to support E-O converter
DC power supply *1	12V 3A, to power the O-E Converter
Attenuating tip(s)	Configured as per specific model
Quick user guide *1	
Calibration Certificate *1	
Packing list *1	

Optional Accessories

OP10-x	Attenuating tip of 10X
OP20-x	Attenuating tip of 20X
OP50-x	Attenuating tip of 50X
OP100-x	Attenuating tip of 100X
OP200-x	Attenuating tip of 200X
OP500-x	Attenuating tip of 500X
OP1000-x	Attenuating tip of 1000X
OP2000-x	Attenuating tip of 2000X
OP5000-x	Attenuating tip of 5000X

Remarks:

OPXX-* is attenuator tip, XX means attenuation ratio, * means bandwidth.

i.e, OP10-2 is an attenuator tip with 10X, bandwidth of 200MHz.

Refer to following list to choose applicable attenuator tip:

Model No.	Standard Tip(s)	Optional Tip(s)
MOIP01P	OP10-2	OP20-2 OP500-2 OP1000-2 *More on request
MOIP02P		
MOIP03P	OP20-5 OP1000-5	OP50-5 OP2000-5 *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		

Supported Oscilloscopes

Any oscilloscope with standard BNC interface and 50Ω impedance.

After Sales Service / Service Support

Optical-fiber Isolated Probe main body warranty for 1 year (extendable with extra charge).

The SigOFIT probe contains high-quality components and should be treated with care, **Damage to the fiber optic** cable is NOT covered by the warranty.

Standard accessories are NOT covered in main body warranty.

Micsig provides one-on-one exclusive technical support service.

During the warranty period, Micsig will be responsible for providing free maintenance for any malfunctions caused by quality issues within the normal use of the product that have not been disassembled or repaired.

The warranty will be invalid in the following cases, but repair services can be provided, free of labor costs, and only parts fees will be charged:

- a. Any damage to accessories caused by improper use, maintenance, or storage by consumers.
- b. Damage caused by force majeure factors, such as natural disasters.

Micsig will refuse to provide repair services or provide paid repair services in the following situations:

- a. Unauthorized dismantling, such as changing wires, dismantling internal components, etc.
- b. No sales voucher or the content of the sales voucher does not match the product.
- * Micsig reserves the right of final interpretation for the content hereinabove;
- * It is subject to update without prior notice;
- * Please contact local distributor for any inquiry or send us email directly.

