Micsig

SigOFIT™ Optical-fiber Isolated Probe

Quick Guide

Shenzhen Micsig Technology Co., Ltd.

www.micsig.com

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⚠️ **WARNING**：

* DO NOT block the heat dissipation port on the back of Optical-Electrical converter, otherwise the probe may be overheated and damaged.

Do not block the heat dissipation port

* DO NOT excessively bend the fiber cable. Avoid tight radius (＜8cm) bends, crushing, crimping, twisting, pulling or otherwise stressing the cable.

Breakable Fiber Cable
⚠ No Warranty Covered
Please Do Not Fold

DO NOT bend the fiber cable less than 8cm radius otherwise it may break the cable

Main Steps:

1. Connect the Optical-Electrical (O-E) converter to oscilloscope (Figure 1);

Figure. 1

2. Set the oscilloscope input impedance to 50Ω, set corresponding attenuation ratio and delay time on the oscilloscope;

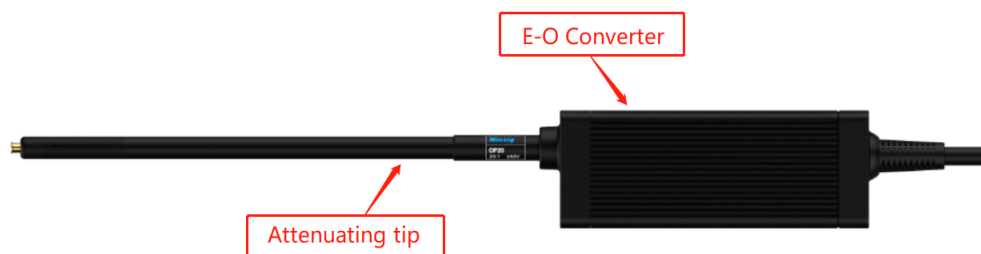3. Connect attenuating tip to the Electrical–Optical (E-O) converter (Figure 2);

Figure. 2

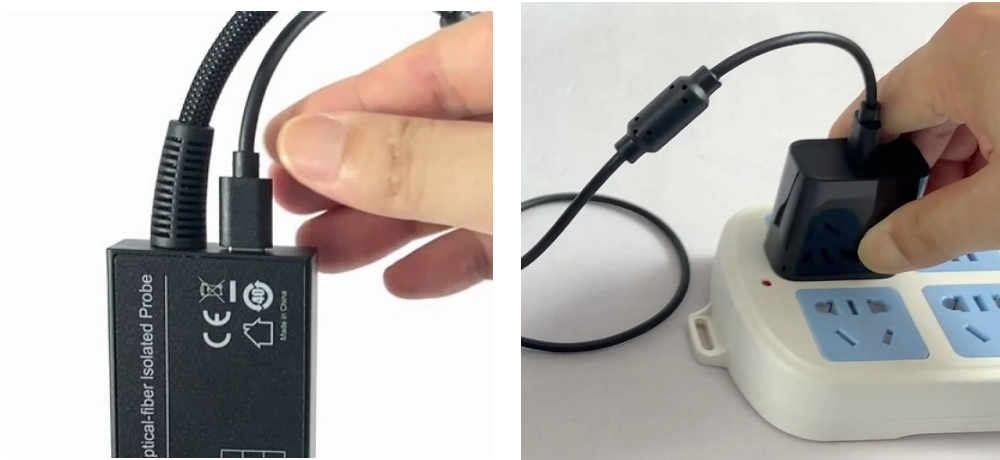4. Power the SigOFIT probe by connecting USB-C cable to O-E Converter using standard charger (localized) (Figure 3);

Figure. 3

5. Solder the MCX connector to the test board:

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 4), just keep one.

① Signal Pin ② Cut any 3 ground pins
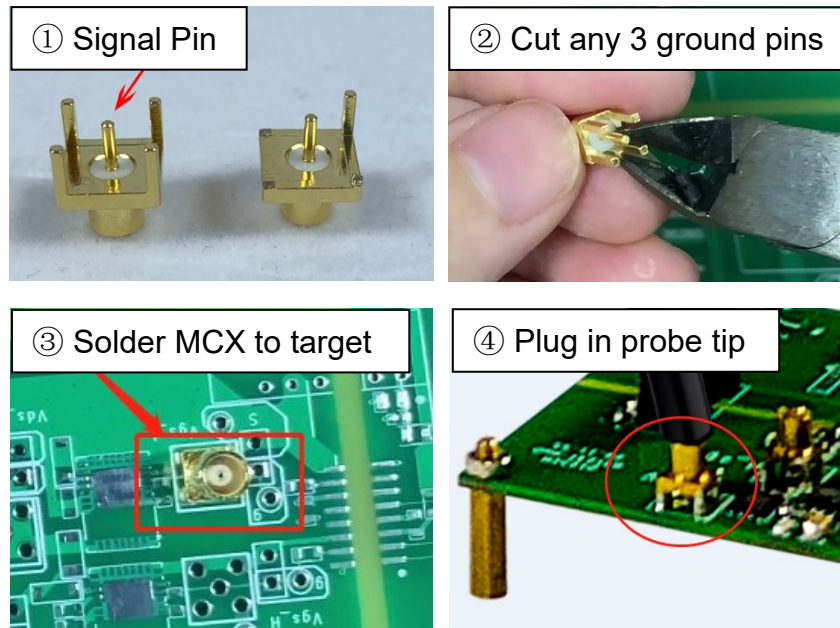
③ Solder MCX to target ④ Plug in probe tip

Figure 4.

6. Plug in the attenuating tip to MCX female socket, when hearing a "click", it means that the connection is successful.

7. Power ON the test board;

8. Adjust the oscilloscope settings and proceed normal test;

9. Suggest to press **Cali.** button to get better results before get final readings, Calibration completed in 1 second, no need to disconnect the circuit.

⚠ **Over-voltage Warning:**

When 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.

Button Descriptions：

Figure 5.

① **Cali.:** Press to re-zero or calibrate in only 1 second during test, no need to wait
        * Always press **Cali.** button to get better results before get final test readings.

② "△" / "▽"： Press to adjust offset position manually (normally not required).

* Please refer to User Manual or contact Micsig for more information.
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