





## Main Steps:

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



Figure. 1

2. Set the oscilloscope input impedance to  $50\Omega$ , set corresponding attenuation ratio and delay time on the oscilloscope;
3. Connect attenuating tip to the Electrical–Optical (E-O) converter (Figure 2);

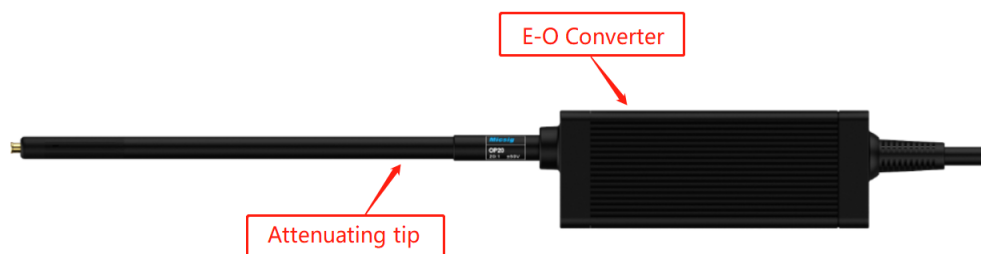


Figure. 2

4. Power the SigOFIT probe by connecting USB-C cable to O-E Converter using standard charger (localized);
5. Solder the MCX or MMCX connector to the test board:
  - 1) When testing Vgs signal, the signal pin (in the middle) of the MMCX female connector must be connected to the G-end of the MOSFET;
  - 2) Solder the MMCX 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 3), just keep one.

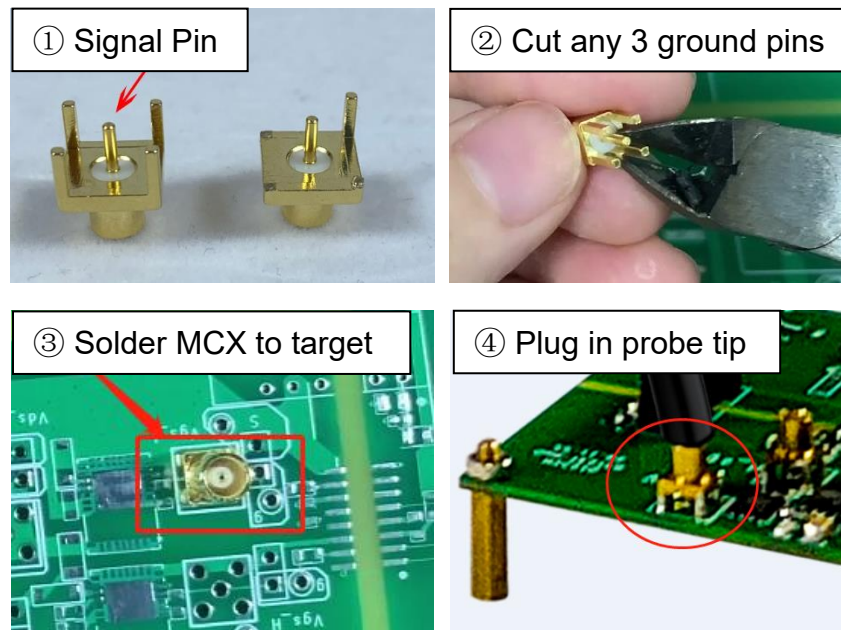


Figure 3.

6. Plug in the attenuating tip to MMCX 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 "Gain" button flashes and hearing a rapid "DiDiDiDi.." buzzer sound, indicate a over-voltage warning, 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 4.

① **Cali.:** Press to calibrate in 1 second, no need to disconnect circuit, one sound means success, three sounds mean failure, **always press Cali. button to get better results before get final test readings.**

② **Gain:** Press to switch between 0dB and 20dB. The attenuation ratio of the attenuating tip is not fixed, corresponding attenuation ratio needs to be set according to the indicator light. Please refer to Data sheet or User manual for specific voltage range of 0dB and 20dB.

## Adapters and coaxial lead

Accessory name	Withstand voltage range
MMCX-adapter	< 300 Vpp
MCX-adapter	< 3000 Vpp
MMCX coaxial lead	< 300 Vpp
MCX coaxial lead	< 3000 Vpp
LCX coaxial lead	< 8000 Vpp

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