


Safety Symbols

 CAUTION	<p>Indicates a potentially hazardous situation which, if ignored, may result in damage to the product and other property.</p>
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Overview

The OP01-KJM is an FET probe for the RF/CLK signals of the jitter meter. It is used by connecting to the RF/CLK signal that is output from the pickup of CD and DVD drives, etc.

Features such as high input impedance, low capacitance input, 14 dB gain (50-Ω termination), and 50-Ω signal transmission reduce the effects of noise generated by the measurement system of the CD or DVD drive and enable accurate measurements.

Checking the Package Contents

When you receive the product, check that all accessories are included and that the probe and accessories have not been damaged during transportation.

If any of the accessories are damaged or missing, contact your Kikusui agent or distributor.

Table 1 Package Contents

	Probe	1 pc.
	AC adapter [97-05-0040]	1 pc.
	OUTPUT cable [91-80-5315]	1 pc.
	INPUT cable [85-50-0280]	1 pc.
	Attachment screws [M3-001-091]	2 pcs.
	Operation manual [Z1-003-042]	1 pc.

Procedure

- CAUTION**
- Be sure to use the supplied AC adapter to supply power to the probe.
 - The supplied AC adapter is dedicated to the OP01-KJM. Do not use the adapter for other devices.
 - Do not apply voltage exceeding 10 Vpk to the INPUT terminal as it can cause damage to the probe.

1. Cut the supplied INPUT cable and create two cables with a plug on one end.
2. Connect the INPUT cables, AC adapter, and OUTPUT cable as shown in Fig. 1.

- NOTE**
- To prevent undesirable effects from noise and other factors, adjust the length of the cable so that the distance between the point of measurement and the INPUT terminal of the probe is minimum. We recommend less than or equal to 10 mm.
 - Strip the covering of the INPUT cable and solder it to the point of measurement.
 - Use the attachment screws (M2.6) if you wish to fix the probe in place.

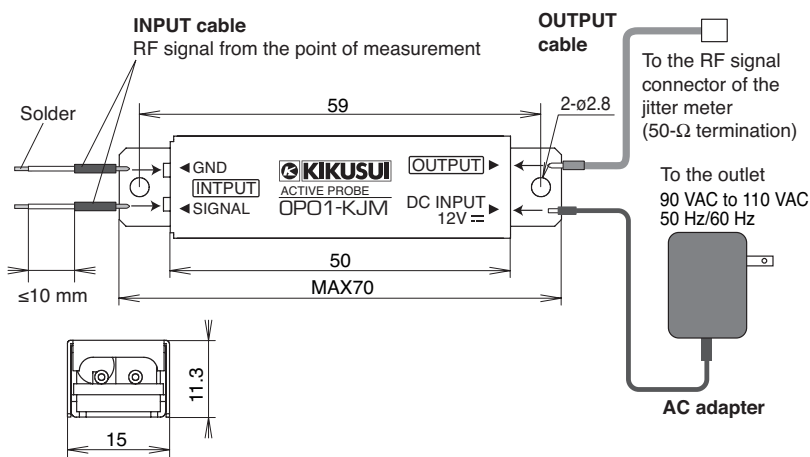


Fig. 1 Connecting the OP01-KJM

Specifications

Unless specified otherwise, the performance figures are for the following conditions.

- Power supply: Using the supplied AC adapter
- Warm-up time: At least 30 minutes
- Ambient temperature and relative humidity: $25\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ and 20 % to 85 %
- At the INPUT terminal

Item	Specifications
Basic performance	
Input impedance	1 M Ω or more
Input capacitance	3.0 pF to 5.0 pF
Maximum input voltage	10 Vpk at 50 kHz
Gain* ¹	14 dB \pm 1 dB (at a frequency between 50 kHz and 100 MHz and input voltage between 40 mVp-p to 200 mVp-p)
Frequency bandwidth (-3 dB)* ¹	9.5 dB or greater at 50 Hz 9.5 dB or greater at 250 MHz
General specifications	
Supply voltage	+12 V
Current consumption	100 mA or less
Specification guaranteed temperature and relative humidity	$25\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$, 20 % to 85 %* ²
Operating temperature and relative humidity range	$10\text{ }^{\circ}\text{C}$ to $40\text{ }^{\circ}\text{C}$, 20 % to 85 %* ²
Storage temperature and relative humidity range	$-20\text{ }^{\circ}\text{C}$ to $70\text{ }^{\circ}\text{C}$, 90 % or less* ²
Input terminal	1 mm socket (BS1/90 by Multi-Contact)
Output terminal	SML connector
Dimensions (mm)	See Fig. 1
Weight	Approx. 40 g
Accessories	AC adapter: 1 pc. OUTPUT cable (approx. 1.5 m, SML-BNC): 1 pc. INPUT cable (LK1-S by Multi-Contact): 1 pc. Attachment screws (M2.6): 2 pcs., Operation manual: 1 pc.
Safety	Complies with IEC61010-1:2001-02 Pollution degree 2
AC adapter specifications	
Input line voltage	90 VAC to 110 VAC
Input line frequency	50 Hz/60 Hz

*1 INPUT terminal measured with 50- Ω termination.

*2 Without condensation.

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