

Made in Taiwan

Accessories

Description

Color Coding Rings 2each
Swivel Ground Lead
Trimmer Tool
Ground Lead with Alligator Clip
Rigid Probe Tip, 2.5mm
Short Collar, 2.5mm
Long Collar, 2.5mm
IC Tip Insulators QTY 5, 2.5mm
Tip Insulator 2.5mm
Probe Tip Cover, 2.5mm
BNC Adapter, 2.5mm
Swivel Ground Lead Adapter
Ground Spring, 2.5mm
PCB Adapter, 2.5mm
Spring Tip, 2.5mm
Sprung Hook, 2.5mm

Part No.

PA-105 x4 Colors
PA-611
PA-632
PA-641G
PA-642
PA-643G
PA-645G
PA-646
PA-647
PA-648G
PA-649
PA-650G
PA-651
PA-652
PA-653
PA-655G



Oscilloscope Probe Kit Model. PP8027



Introduction

The PP8027 is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of $1M\Omega$ shunted by $10pF$.

However, it may be compensated for use with instruments having an input capacitance of 10 to $25pF$.

The PP8027 is also compatible with readout function oscilloscopes that automatically detect probe attenuation and adjust the scale readout accordingly.

Safety Instructions

MEASUREMENT CATEGORY II (CAT II) is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.

This part of the installation is expected to have a minimum of three levels of overcurrent protective devices between the transformer and the connecting points of the measuring circuit.

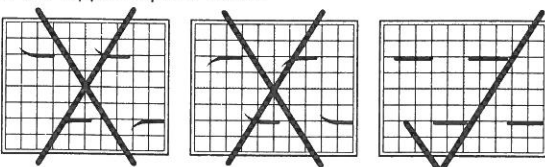
Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

- To avoid potential hazards, use this product only as specified.
- The common terminal is at ground potential. Do not connect the common terminal to elevated voltages.
- Do not operate in an explosive atmospheres.
- Keep product surfaces clean and dry.
- If your probe requires cleaning, disconnect it from the instrument and clean it with mild detergent and water. Make sure the probe is completely dry before reconnecting it to the instrument.
- Do not use the probe kit whenever the wire is so wear that the inner insulation of the wire is seen.

Compensation Adjustment

The following adjustment is required whenever the probe is transferred from one oscilloscope or input channel to another.

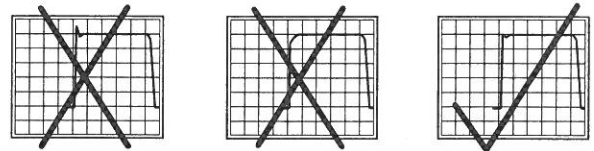
Connect the probe to the oscilloscope, apply a 1KHz square wave to the probe tip, or connect to the cal socket on the oscilloscope to display a few cycles of the waveform and adjust the trimmer located in the BNC box for a flat topped square wave.



H.F. Compensation Adjustment

The probe high frequency (H.F.) compensation should seldom require adjustment; however, if adjustment is required, use the following procedure.

Connect the probe to a 1MHz square wave (rise time less than $0.5nS$), and adjust the oscilloscope controls to display one half cycle of the waveform. adjust the H.F. trimmer located in the BNC plug for a flat topped square wave.



Specifications

Attenuation Ratio	10:1±1% (at DC)
Bandwidth	DC to 700MHz*
Rise Time	0.5nS
Input Resistance	10MΩ when used with oscilloscopes which have 1MΩ input.
Input Capacitance	Approx. 10pF (Measure at 100KHz)
Compensation Range	10 to 25pF
Max. Input Voltage	Circuits not directly connected to Mains: 500 Vrms 1500 V transient overvoltage (see Fig.1) Measurement Category II: 400 Vrms
Pollution Degree	Pollution Degree 2
Operating Altitude	UP to 3000 meters
Max. Operating Temp	0° C to +50° C
Humidity	5% to 95% RH (10° C to 30° C) 5% to 75% RH (30° C to 40° C) 5% to 50% RH (above 40° C) RH not controlled below 10° C
Safety	Meets IEC/EN 61010-031:2015
Cable Length	1.3 Meter

*700 MHz bandwidth available with the keysight® InfiniiVision 4000X/6000X with 1 GHz or higher bandwidth models only.