

All-New Hi-Z+ Passive Probing System

Mike Hoffman

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Product Manager, Keysight Technologies



What is the Hi-Z+ Passive Probing System?

SYSTEM OVERVIEW

- This is a family of three probes, one adapter, and various extra parts/accessories.

	1 GHz, 300 Vrms	800 MHz, 1.2 kVrms	1 GHz, 30 Vrms (MMCX)
Probe	PP0001A	PP0002A	PP0003A
Adapter	PP0004A		
Accessory Kits	PP0011A		PP0013A
Adapter Kits	PP0017A	PP0019A	N/A
Cartridge Replacements	PP0014A	PP0018A	N/A

What is the Hi-Z+ Passive Probing System?

PROBE OVERVIEW

	PP0001A	PP0002A	PP0003A
Bandwidth	1 GHz	800 MHz	1 GHz
Voltage (rms)	300	1200	30
Voltage (peak)*	1500	3000	42.4
Input to scope	Via PP0004A	Via PP0004A	Via PP0004A
Tip style	Cartridge tip	Cartridge tip	MMCX

*peak overvoltage is allowed for a duration of a few milliseconds or less.

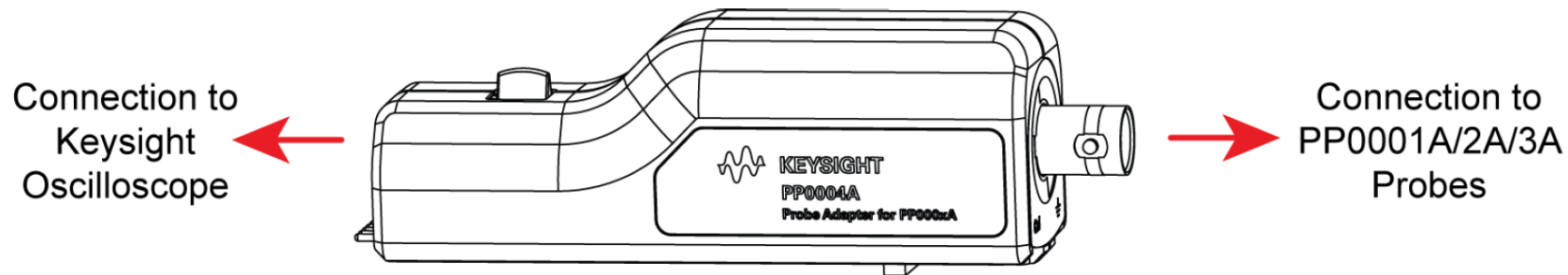


Notice how the tip is part of a larger “cartridge” for PP0001A and PP0002A, which are replaceable. This is in comparison to a usual passive probe, where you can only replace the tip.

What is the Hi-Z+ Passive Probing System?

ADAPTER OVERVIEW

	PP0004A
Interface	AutoProbe I
Compatible Probes	PP0001A, PP0002A, PP0003A only

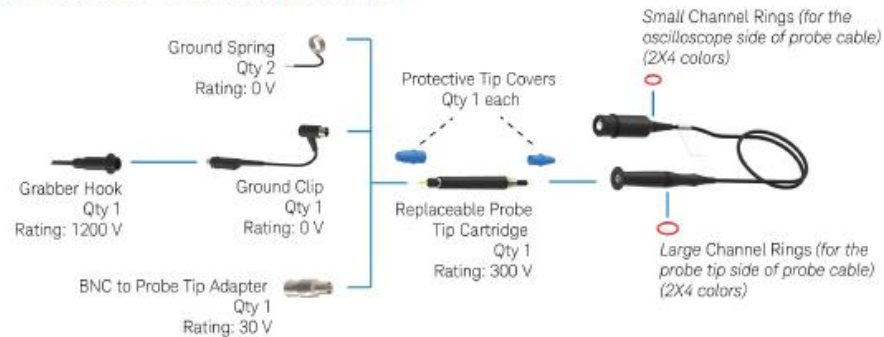


What is the Hi-Z+ Passive Probing System?

REPLACEMENT PARTS/ACCESSORIES

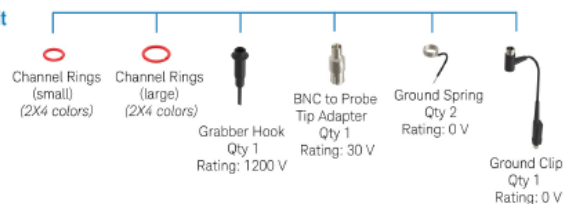
Part Kit	Description	Notes	Standard?
PP0011A	PP0001A / PP0002A accessory kit	Channel ID rings, grabber hook, BNC adapter, ground springs, ground clip	Yes
PP0013A	PP0003A accessory kit	Channel ID rings, redblack mini grabbers, MMCX to square adapter	Yes
PP0014A	PP0001A fixed cartridge accessory kit	Probe tip cartridge, protective tip covers	Yes
PP0017A	PP0001A adapter kit	Square socket probe tip adapters, PCB to probe tip adapters	No
PP0018A	PP0002A fixed cartridge accessory kit	Probe tip cartridge, protective tip covers	Yes
PP0019A	PP0002A adapter kit	Square socket probe tip adapters, PCB to probe tip adapters	No

PP0001A Probe - Standard Accessories



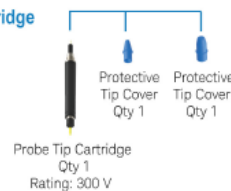
PP0011A Accessory Kit

(For use with PP0001A and PP0002A probes only)



PP0014A Fixed Cartridge Accessory Kit

(For use with PP0001A probe only)



PP0017A Adapter Kit

(For use with PP0001A probe only)



Focused Markets, Applications

FOCUSED ON POWER APPLICATIONS

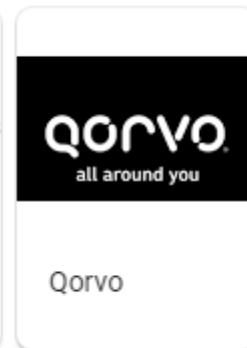
Focused Customers

- R&D Design
- R&D Validation
- Installation and Maintenance



Applications

- High Power Converters
- High Power Semiconductors
- Large Motor Drive Design
- Gallium Nitride (GaN) devices



Compatible Oscilloscopes

ANY OSCILLOSCOPE USING AUTOPROBE

Compatible Oscilloscope	Adapter(s) Required	SW Version Required
InfiniiVision 3000T, 4000, 6000 X-Series	PP0004A	7.40 or higher
Infiniium EXR-Series, MXR-Series	PP0004A	11.10 or higher
Infiniium UXR-Series	PP0004A + N5442A	11.10 or higher
Infiniium S-Series	PP0004A	6.60 or higher
Infiniium 90000-Series, V-Series, Z-Series	PP0004A + N5442A	6.60 or higher

How the Probe and Adapter are Shipped



- Probes are sold in an anti-static bag, like other passive probes.
- Adapter comes in a padded case, with room to store a probe and its accessories.
- Since every probe requires an adapter today, this is the preferred storage system for customers, and how demo units will arrive.

The Future of High-Performance Passive Probe System

PP0004A IS A BRIDGING STRATEGY



Above, you can see the PP0001A interfacing with an Infiniium oscilloscope via the PP0004A adapter. Below, you can see how the connection will look on future oscilloscopes, directly connected.



- In order to use this new probe technology immediately on current oscilloscopes, the adapter was needed.
- Future generations of InfiniiVision and Infiniium oscilloscopes will have the PP0004A built-in.
- Only the PP0001A, PP0002A, and PP0003A will be required, can interface directly with the oscilloscope just like our other passive probe options.

Placeholder Photos

PP0002A



Placeholder Photos

PP0003A



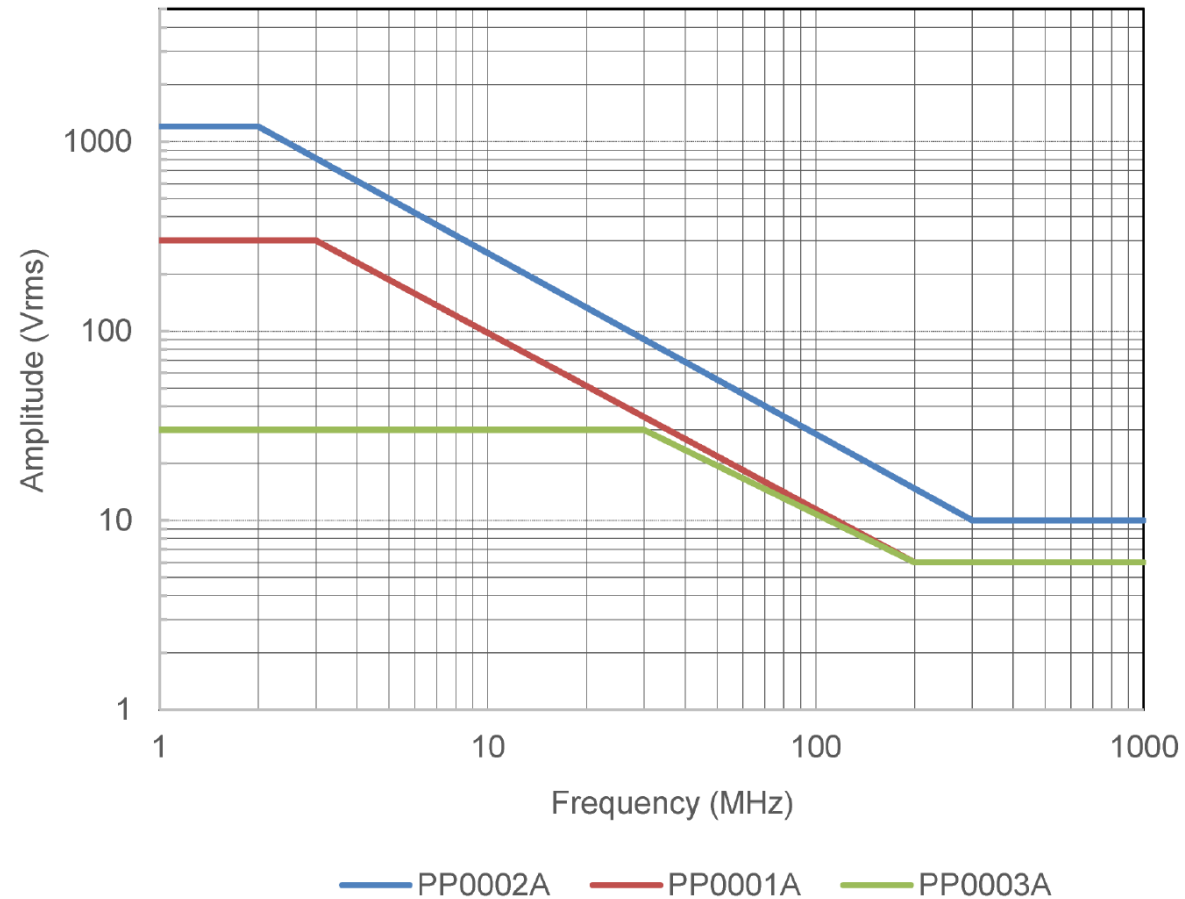
Placeholder Photos

PP0004A



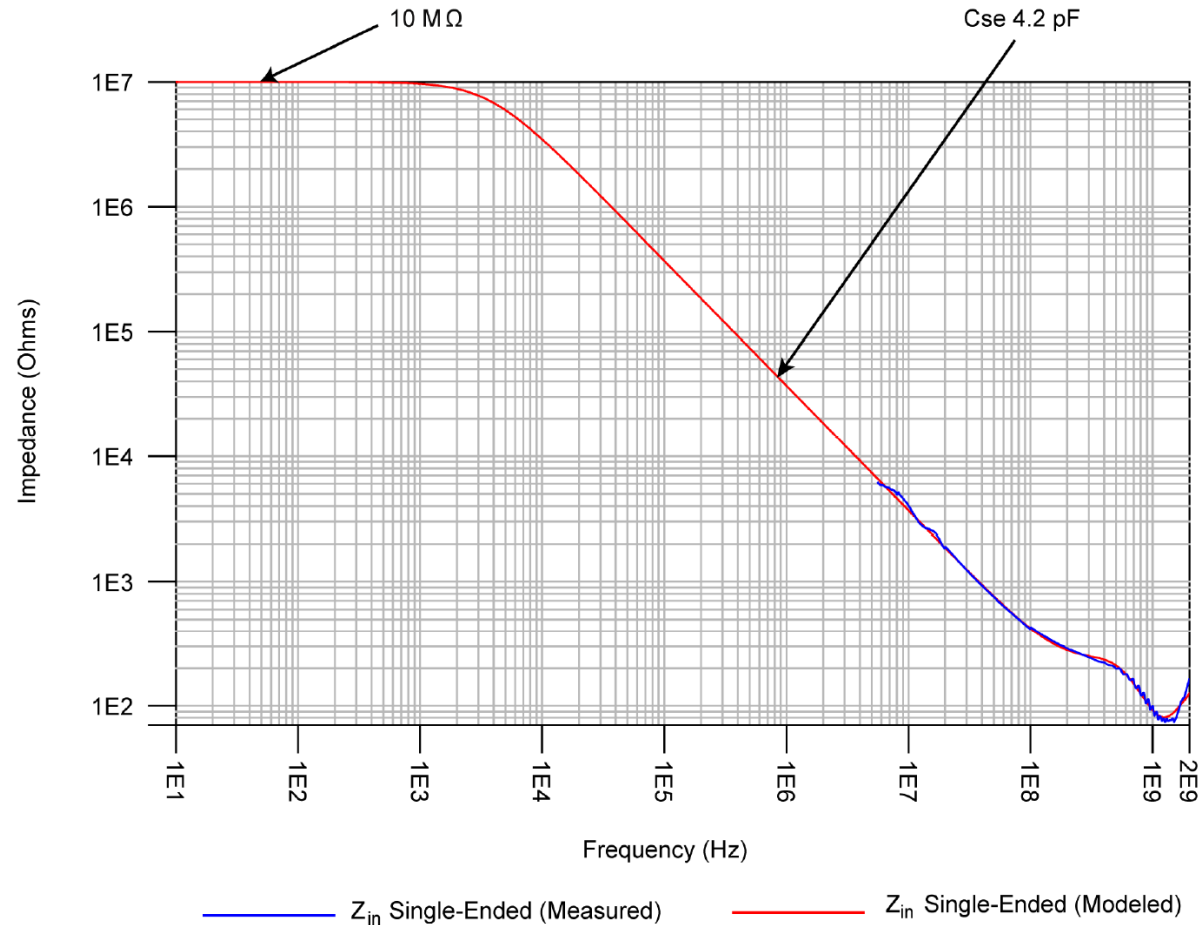
Performance Plots

DERATING CURVE (ALL PROBES)



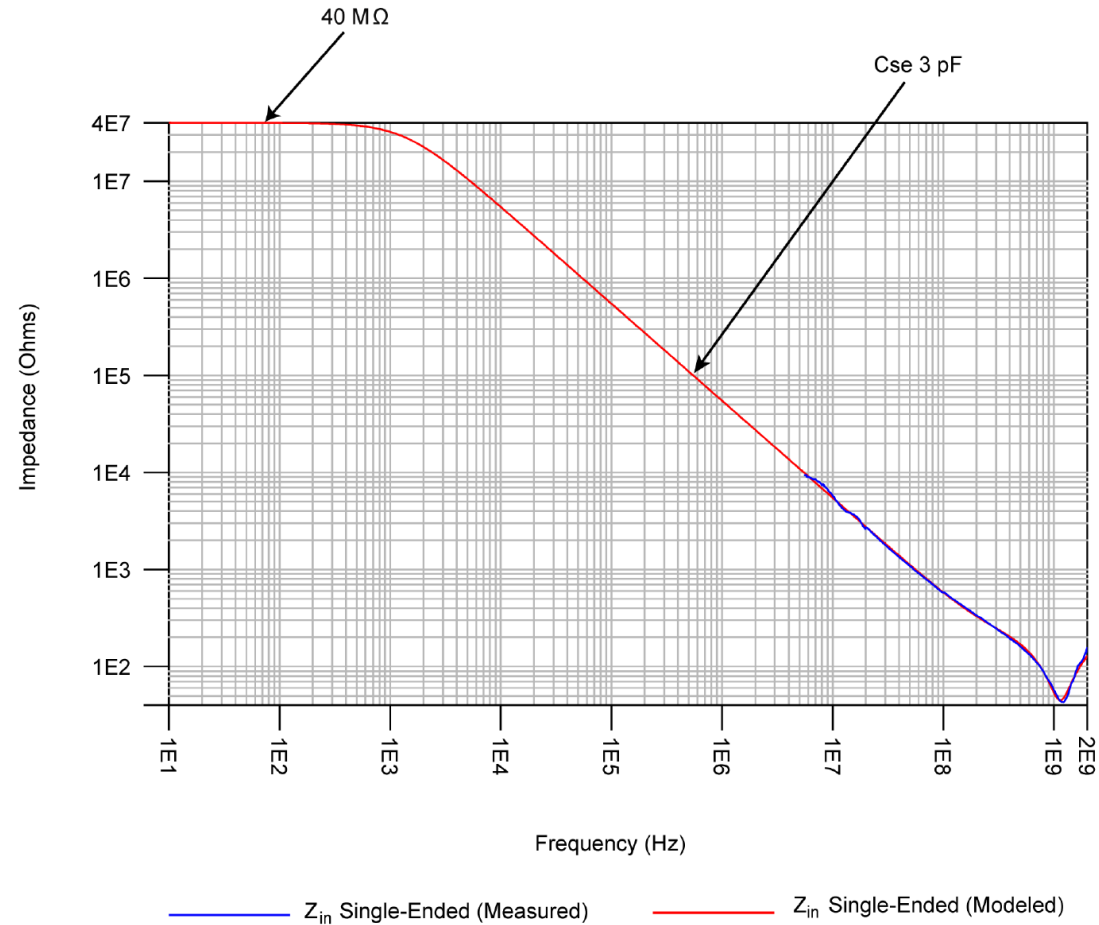
Performance Plots

PP0001A INPUT IMPEDANCE



Performance Plots

PP0002A INPUT IMPEDANCE



Performance Plots

PP0003A INPUT IMPEDANCE

