

Oscilloscope Probes & Accessories

120

High-Impedance Passive Probes

HP 1160A

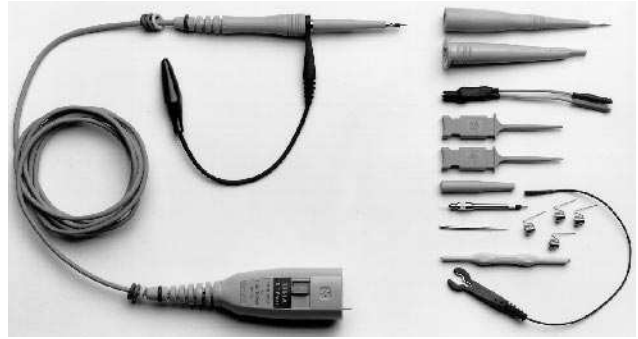
HP 1160A Family Miniature Passive Probes

The HP 1160 family of miniature probes are reliable general-purpose probes for use with Infiniium Oscilloscopes (HP 54800 series). The HP 1160 family probes include a no-slip browser with a crown point that digs in to solder, and won't slip. The pogo pin allows hand movement without losing contact.

A variety of grounding accessories are included. An alligator ground lead for general-purpose probing, 4 spring grounds for high frequency measurements, a socketed ground lead and 2 SMD IC clips for probing 50 mil SMD. Also included is a dual lead adapter so that both the probe tip and ground can be connected to SMD devices. For connection to 0.5 mm–0.8 mm devices, order the 10467-68701 0.5 mm IC clips.

The HP 1160 family probes are built and tested for high reliability. The cable has a kevlar strengthener for added pull strength. The general-purpose retractable hook tip has a durable music wire hook. And probe tips are replaceable.

The miniature probe has a narrow, sharp tip that is good for probing SMD. To fully miniaturize the probe, unscrew the handle and pull it back on the cable. The HP 1160 family probes are compatible with the AutoProbe Interface, which completely configures the Infiniium Oscilloscope for the probe.



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Model	Type of probe	Length	Division ratio	Circuit loading	System bandwidth (scope and probe)	Oscilloscope input
HP 1160A	High Impedance, Passive	1.5 m	10:1	10 MOhm, 9pF	500 MHz ¹	1 MOhm, 6-9 pF
HP 1161A	High Impedance, Passive	1.5 m	10:1	10 MOhm, 10 pF	500 MHz ²	1 MOhm, 12-14 pF
HP 1162A	High Impedance, Passive	1.5 m	1:1	1 MOhm, 50 pF +scope input	25 MHz ³	1 MOhm
HP 1163A	500 Ohm Resistive Divider	1.5 m	10:1	500 Ohm, 1.5 pF	1.5 GHz ²	50 Ohm
HP 1164A	High Impedance, Passive	2.0 m	10:1	10 MOhm, 10pF	500 Mhz ¹	1 MOhm, 6-9 pF

¹ System bandwidth with 54810A/15A/20A/25A

² System bandwidth with 54845A

³ System bandwidth with all Infiniium scopes

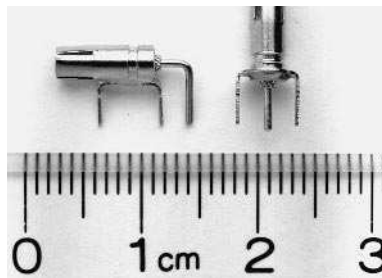
HP 1160 Family Replacement Parts

HP p/n	Description	Qty
5063-2115	Browser	1
5063-2120	Socketed ground lead	1
5063-2135	General-purpose retractable hook tip	2
5063-2140	Alligator ground lead	2
5063-2147	Dual lead adapter	1
5063-2149	SMD IC clips	5
01160-68701	Accessory kit: Spring grounds Browser pogo pins Barrel insulators Screwdriver	4 4 4 1
5063-2136	HP 1160A probe tip	5
5063-2137	HP 1161A probe tip	5
5063-2138	HP 1162A probe tip	5
5063-2139	HP 1163A probe tip	5

Fine Pitch IC Probing Accessories

HP p/n	Description	Qty
E2613B	HP Wedge probe adapter, 0.5 mm, 3-signal	2
E2614A	HP Wedge probe adapter, 0.5 mm, 8-signal	1
E2615B	HP Wedge probe adapter, 0.65 mm, 3-signal	2
E2616A	HP Wedge probe adapter, 0.65 mm, 8-signal	1
E2643A	HP Wedge probe adapter, 0.5 mm, 16-signal	1
E2444A	HP Wedge probe adapter, 0.65 mm, 16-signal	1
10467-68701	0.5mm IC clips for surface SMT parts with lead spacings of 0.5 mm (.020 in) to 0.8mm (0.32 in)	4

HP PC Board Mini-Probe Sockets



The HP PC board mini-probe sockets are ideal for reliable, stable, and convenient connection between the 10400 family probe tip and the circuit under test. The HP 1250-2427 horizontal PC board mini-probe replaces HP 1250-1737. The HP 1250-2428 vertical PC board mini-probe socket replaces HP 1250-1918.

Ordering Information

- HP N2765A Horizontal Mini-Probe Socket, qty 5
- HP N2766A Horizontal Mini-Probe Socket, qty 25
- HP N2767A Vertical Mini-Probe Socket, qty 5
- HP N2768A Vertical Mini-Probe Socket, qty 25