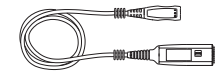


1168/9B InfiniiMax II Probes





Locate the user's guide

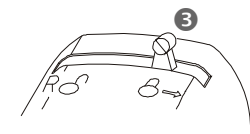
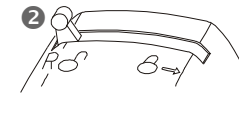
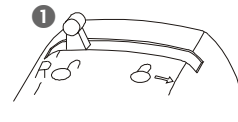
Download the comprehensive 1168/9B user's guide from the probe's product page at www.keysight.com. The user's guide is also available in Keysight's Probe Resource Center (PRC) which is available at www.keysight.com/find/PRC. The PRC is an application that runs on a PC, Mac, or iOS device.

Compatible Oscilloscopes

S series, 90000 V, X, Z, and Q series (with N5442A Adapter), 90000A series, 86100D (with N1022B Adapter), and 80000B series

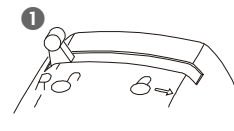
To connect the probe to the oscilloscope

1. With the lever in relaxed position **1** push the probe onto the BNC.
2. The lever moves towards the R (release) **2** and returns to  symbol.
3. Move the lever towards the  symbol until snug. **3**



To disconnect the probe from the oscilloscope

To disconnect, move and hold the lever at R (release) **1** and pull the probe from the BNC.



Probe safety information

- Maximum Input Voltage: 30V Peak (mains isolated). Maximum non-destructive voltage on each input ground.
- To protect the probe from damage, read the Probe Handling section in the user's guide.
- Refer to the user's guide for additional safety and handling information.
- Probes are ESD sensitive devices particularly at the probe heads. Follow standard ESD precautions when handling.

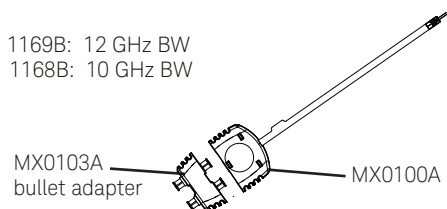
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Recommended probe head configurations
(listed in order of best performance)

1. MX0100A InfiniiMax micro probe head

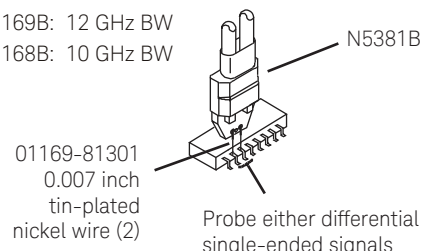
1169B: 12 GHz BW
1168B: 10 GHz BW



- Lowest input loading (0.17 pF differential).
- Light, flexible, small, and reusable.
- Micro solder-in head designed to access small geometry target devices.
- Accessory: MX0103A bullet adapter shipped with MX0100A for easy connection and disconnection from the probe amplifier.
- MX0102A soldering tool kit (available separately) with useful tools to make soldering easier.

2. N5381B differential solder-in probe head

1169B: 12 GHz BW
1168B: 10 GHz BW

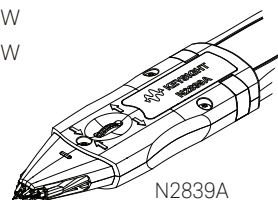


- Solder-in connection for differential and single-ended signals.
- Very low input loading (0.21 pF differential).
- Wires must be cut to proper lengths (see user's guide).

3. N2839A differential browser probe head

1169B: 12 GHz BW
1168B: 10 GHz BW

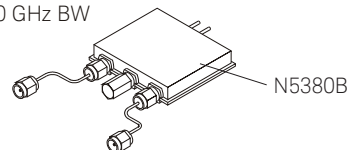
C_{diff} : 0.21 pF
 C_{se} : 0.34 pF



- Probe either differential or single-ended signals.
- Adjustable tip spacing (0 to 3 mm).
- Spring-loaded tips for secure connection.
- Compatible with N2784/5A or N2787A probe positioners.
- For additional tips, order N2837A Replacement Tip Kit.

4. N5380B SMA probe head

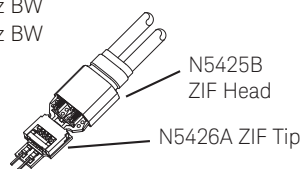
1169B: 12 GHz BW
1168B: 10 GHz BW



- Preserves scope channels for measuring differential signals (vs. A-B).
- Inherent cable loss compensation.
- Common mode termination voltage can be supplied.
- Offset SMA cables adapt to variable spacing.
- Full bandwidth.

5. N5425B ZIF probe head / N5426A ZIF tip

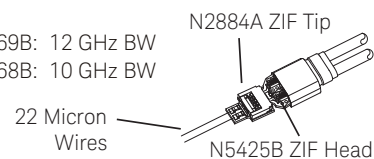
1169B: 12 GHz BW
1168B: 10 GHz BW



- Very small fine-pitch targets.
- Low cost solder tips for probing multiple test points.
- Full bandwidth.
- Slightly higher loading than solder-in head.

6. N2884A fine wire ZIF tip

1169B: 12 GHz BW
1168B: 10 GHz BW

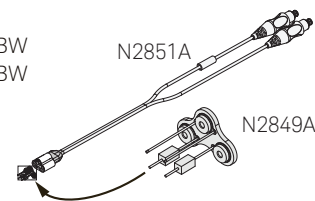


- High fidelity, high bandwidth differential probing of active IC.
- Flat frequency response over entire 12 GHz bandwidth.
- Greater rejection of common-mode noise due to use of local adjacent ground or node.
- Requires the N5425B ZIF head.

Recommended probe head configurations (continued)
(listed in order of best performance)

7. N2851A QuickTip probe head

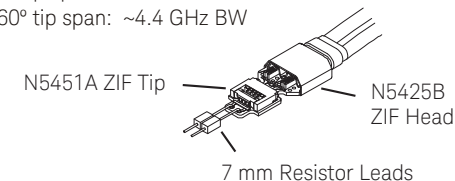
1169B: 12 GHz BW
1168B: 10 GHz BW



- Easy, secure magnetic connection between head and tip.
- Use N2848A and N2849A with InfiniiMax III+ amp for InfiniiMode function.
- Accessory: N2849A QuickTip tips (qty 4)

8. N5451A long-wire ZIF tip (7 mm)

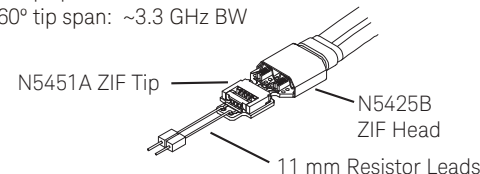
0° tip span: ~9.9 GHz BW
60° tip span: ~4.4 GHz BW



- 7 mm leads provide long reach.
- Accommodate variable-pitch targets.
- Soldered to circuit.

9. N5451A long-wire ZIF tip (11 mm)

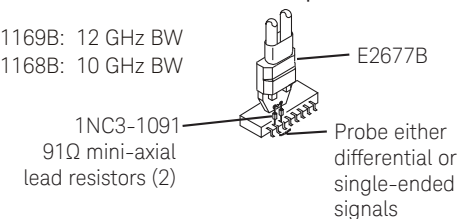
0° tip span: ~5 GHz BW
60° tip span: ~3.3 GHz BW



- 11 mm leads provide extra long reach.
- Accommodate variable-pitch targets.
- Soldered to circuit.

10. E2677B differential solder-in probe head

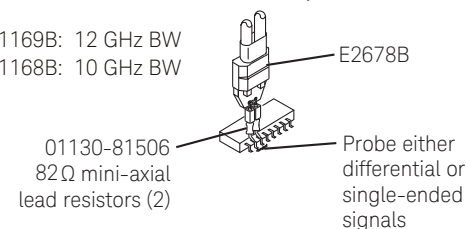
1169B: 12 GHz BW
1168B: 10 GHz BW



- Acceptable solder-in connection for differential and single-ended signals. N5381B is preferred.
- Higher capacitance than N5381B.
- Resistors must be cut to proper lengths (see user's guide).

11. E2678B differential socketed probe head

1169B: 12 GHz BW
1168B: 10 GHz BW



- Best socketed connection for differential and single-ended signals.
- Slightly higher capacitance than solder-in head.
- Resistors must be cut to proper lengths (see user's guide).

12. E2675B differential browser probe head

1169B: 5.2 GHz BW
1168B: 5.2 GHz BW

