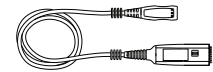


1130/1/2/4B InfiniiMax I Probes



Locate the user's guide

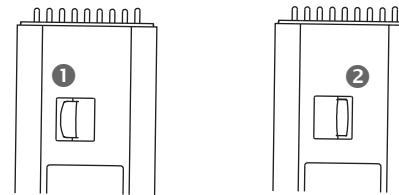
Download the comprehensive 1130/1/2/4B user's guide from the probe's product page at www.keysight.com. The user's guide is also available in Keysight's Probe Resource Center (PRC) which is available at www.keysight.com/find/PRC. The PRC is an application that runs on a PC, Mac, or iOS device.

Compatible Oscilloscopes

3000X, 4000X, 6000X, 5000A, 6000A, 7000A, S-series, 90000A series, 90000 V, X, Z, and Q series (with N5442A Adapter), 86100D (with N1022B adapter) 9000 H, 9000A, 8000A series

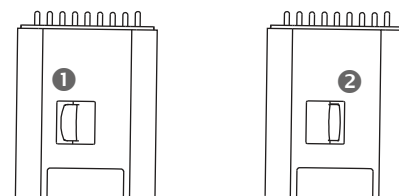
To connect the probe to the oscilloscope

1. Push the probe onto the BNC. As the probe is pushed onto the BNC, the lever moves to the left. ❶
2. When the probe is fully seated, the lever returns to the locked position. ❷



To disconnect the probe from the oscilloscope

To disconnect, push and hold the lever to the left ❶ and pull the probe from the BNC. The lever then returns to the locked position. ❷



Probe safety information

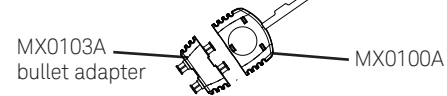
- Maximum Input Voltage: 30V Peak (mains isolated circuits). Maximum non-destructive voltage on each input ground.
- To protect the probe from damage, read the Probe Handling section in the user's guide.
- Refer to the user's guide for additional safety and handling information.
- Probes are ESD sensitive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



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

1. MX0100A InfiniiMax micro probe head

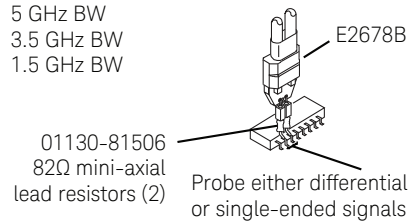
1134B: 7 GHz BW
1132B: 5 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- 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.

3. E2678B differential socketed probe head

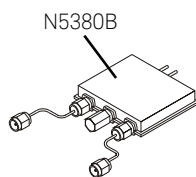
1134B: 7 GHz BW
1132B: 5 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- Best socketed connection for differential and single-ended signals.
- Slightly higher capacitance than E2677B solder-in head.
- Resistors must be cut to proper lengths (see user's guide).

5. N5380B SMA probe head

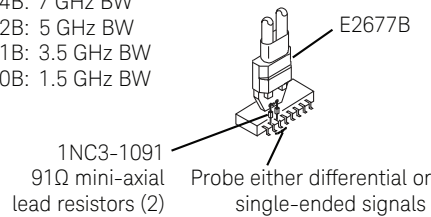
1134B: 5.2 GHz BW
1132B: 4 GHz BW
1131B: ≈ 3.5 GHz BW
1130B: 1.5 GHz BW



- Preserves scope channels for measuring differential signals (vs. A-B).
- Inherent cable loss compensation.
- Common mode termination voltage can be supplied (–4V to +4V).
- Offset SMA cables adapt to variable spacing.

2. E2677B differential solder-in probe head

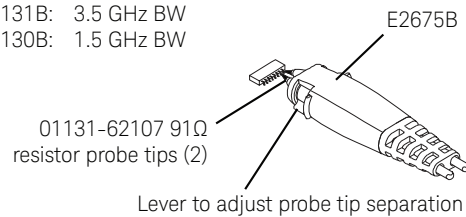
1134B: 7 GHz BW
1132B: 5 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- Solder-in connection for differential and single-ended signals.
- Lowest capacitance.
- Resistors must be cut to proper lengths (see user's guide).

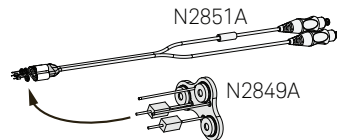
4. E2675B differential browser probe head

1134B: ≈ 6 GHz BW
1132B: 5 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- Best hand (or probe holder) browser for differential and single-ended signals.
- Similar capacitance to configuration #2, E2678B differential socketed probe head.

6. N2851A QuickTip probe head



BW with Infiniium:
1134B: 7 GHz
1132B: 5 GHz
1131B: 3.5 GHz
1130B: 1.5 GHz

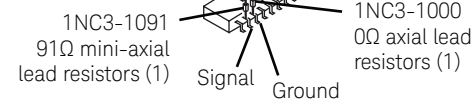
BW with InfiniiVision is < 1.8 GHz

- 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).

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

7. E2679B single-ended solder-in probe head

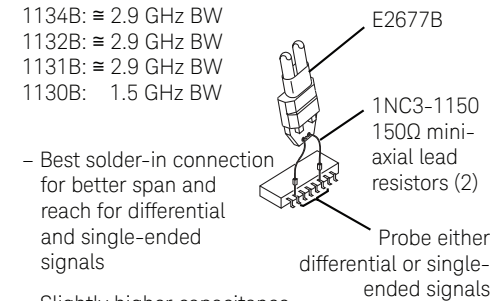
1134B: ≈ 5.2 GHz BW
1132B: ≈ 4.8 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- Smallest probe head for single-ended signals
- Lowest capacitance single-ended probe head
- Resistors must be cut to proper lengths (see user's guide)

9. E2677B diff. solder-in mid-BW probe head

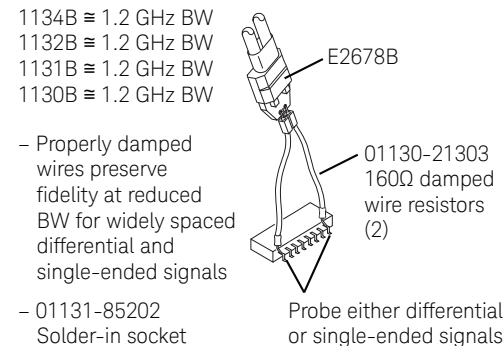
1134B: ≈ 2.9 GHz BW
1132B: ≈ 2.9 GHz BW
1131B: ≈ 2.9 GHz BW
1130B: 1.5 GHz BW



- Best solder-in connection for better span and reach for differential and single-ended signals
- Slightly higher capacitance than configuration #1
- Resistors must be cut to proper lengths (see user's guide)

11. E2678B diff. socketed head with damped wire

1134B: ≈ 1.2 GHz BW
1132B: ≈ 1.2 GHz BW
1131B: ≈ 1.2 GHz BW
1130B: ≈ 1.2 GHz BW



- Properly damped wires preserve fidelity at reduced BW for widely spaced differential and single-ended signals
- 01131-85202 Solder-in socket allows connection to 25 mil square pins

8. E2676B single-ended browser probe head

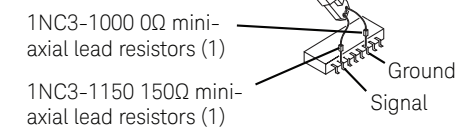
1134B: ≈ 5.5 GHz BW
1132B: ≈ 4.8 GHz BW
1131B: 3.5 GHz BW
1130B: 1.5 GHz BW



- Smallest browser for single-ended signals.
- Slightly higher capacitance than configuration #4

10. E2679B single-ended solder-in mid-BW head

1134B: ≈ 2.2 GHz BW
1132B: ≈ 2.2 GHz BW
1131B: ≈ 2.2 GHz BW
1130B: 1.5 GHz BW



- Smallest solder-in connection for better span and reach for single-ended signals
- Slightly higher capacitance than configuration #1
- Resistors must be cut to proper lengths (see user's guide)