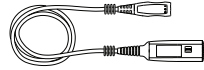


# 1130/1/2/4 InfiniiMax I Probes





## Locate the user's guide

Download the comprehensive 1130/1/2/4 user's guide from the probe's product page at [www.keysight.com](http://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](http://www.keysight.com/find/PRC). The PRC is an application that runs on a PC, Mac, or iOS device.

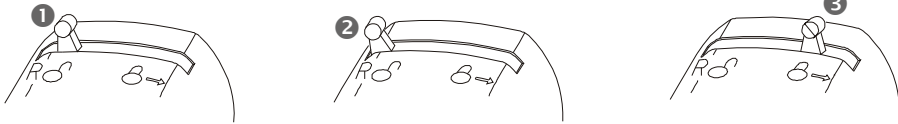
## Compatible Oscilloscopes

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

## To connect the probe to the oscilloscope

1. With the lever relaxed in 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

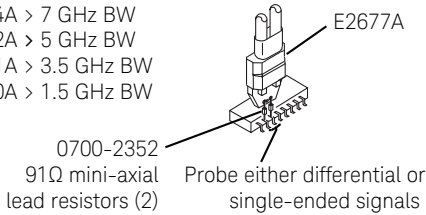
To disconnect, move and hold the lever at R (release) and pull the probe from the BNC.



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

### 1. E2677A differential solder-in probe head

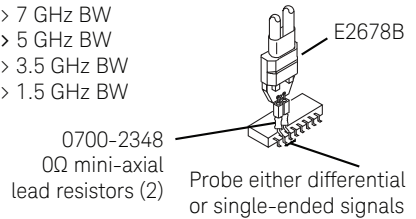
1134A > 7 GHz BW  
1132A > 5 GHz BW  
1131A > 3.5 GHz BW  
1130A > 1.5 GHz BW



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

### 2. E2678B differential socketed probe head

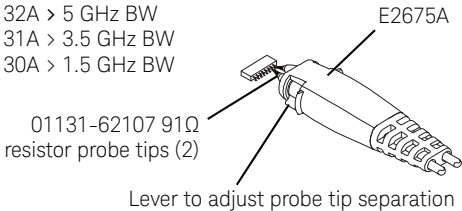
1134A > 7 GHz BW  
1132A > 5 GHz BW  
1131A > 3.5 GHz BW  
1130A > 1.5 GHz BW



- Best socketed connection for differential and single-ended signals.
- Slightly higher capacitance than E2677A solder-in head.
- Resistors must be cut to proper lengths (see user's guide).

### 3. E2675A differential browser probe head

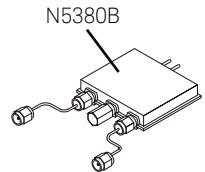
1134A  $\approx$  6 GHz BW  
1132A > 5 GHz BW  
1131A > 3.5 GHz BW  
1130A > 1.5 GHz BW



- Best hand (or probe holder) browser for differential and single-ended signals.
- Similar capacitance to configuration #2, E2678A differential socketed probe head.

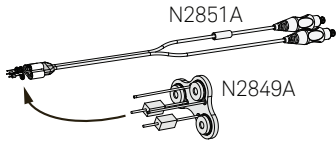
### 4. N5380B SMA probe head

1134A > 5.2 GHz BW  
1132A > 4 GHz BW  
1131A  $\approx$  3.5 GHz BW  
1130A > 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.

## 5. N2851A QuickTip probe head



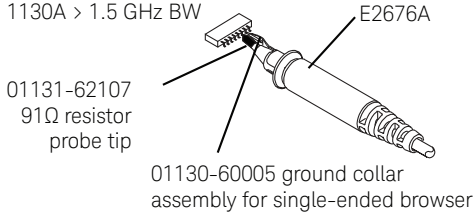
BW with Infiniium and:  
 1134A = 7 GHz  
 1132A = 5 GHz  
 1131A = 3.5 GHz  
 1130A = 1.5 GHz

BW with InfiniiVision  
 is < 1.8 GHz

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

## 7. E2676A single-ended browser probe head

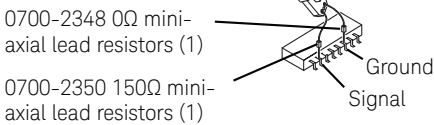
1134A  $\approx$  5.5 GHz BW  
 1132A  $\approx$  4.8 GHz BW  
 1131A > 3.5 GHz BW  
 1130A > 1.5 GHz BW



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

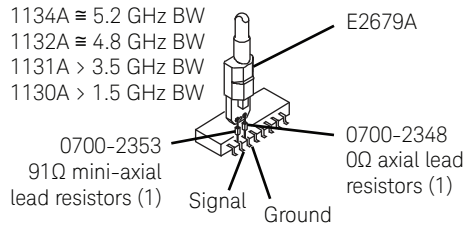
## 9. E2679A single-ended solder-in mid BW head

1134A  $\approx$  2.2 GHz BW  
 1132A  $\approx$  2.2 GHz BW  
 1131A  $\approx$  2.2 GHz BW  
 1130A > 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)

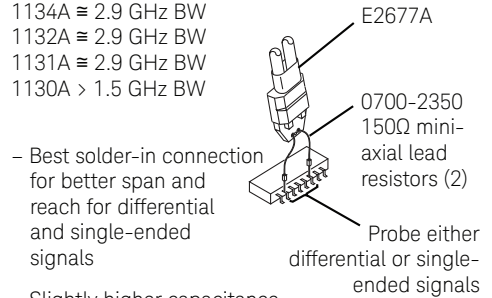
## 6. E2679A single-ended solder-in probe head



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

## 8. E2677A diff. solder-in mid-BW probe head

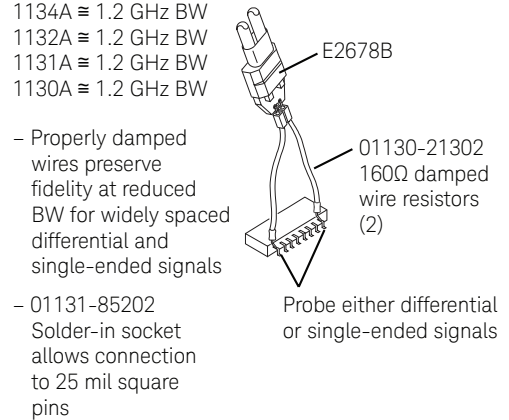
1134A  $\approx$  2.9 GHz BW  
 1132A  $\approx$  2.9 GHz BW  
 1131A  $\approx$  2.9 GHz BW  
 1130A > 1.5 GHz BW



- 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)

## 10. E2678B diff. socketed head with damped wire

1134A  $\approx$  1.2 GHz BW  
 1132A  $\approx$  1.2 GHz BW  
 1131A  $\approx$  1.2 GHz BW  
 1130A  $\approx$  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

## Probe safety information

- Maximum Input Voltage: 30V Peak, CAT I. 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.

