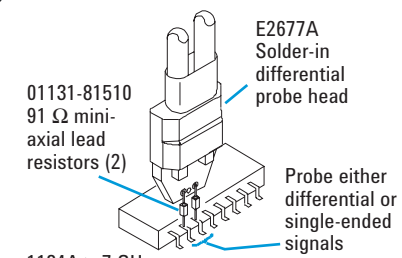


## Recommended Probe Head Configurations

The following configurations are shown in the order of best performance. See the manual for detailed information.

### #1 Solder-in Differential



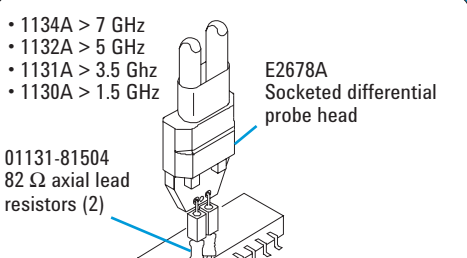
01131-81510 91  $\Omega$  mini-axial lead resistors (2)

E2677A Solder-in differential probe head

Probe either differential or single-ended signals

- 1134A > 7 GHz
- 1132A > 5 GHz
- 1131A > 3.5 GHz
- 1130A > 1.5 GHz
- Best solder-in connection for differential and single-ended signals
- Lowest capacitance
- Resistors must be cut to proper lengths (see manual).

### #2 Socketed Differential



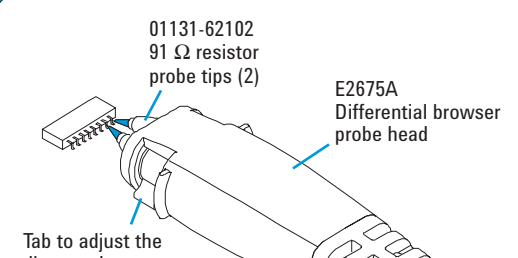
01131-81504 82  $\Omega$  axial lead resistors (2)

E2678A Socketed differential probe head

Probe either differential or single-ended signals

- 1134A > 7 GHz
- 1132A > 5 GHz
- 1131A > 3.5 GHz
- 1130A > 1.5 GHz
- Best socketed connection for differential and single-ended signals
- Slightly higher capacitance than #1
- Resistors must be cut to proper lengths (see manual).

### #3 Differential Browser



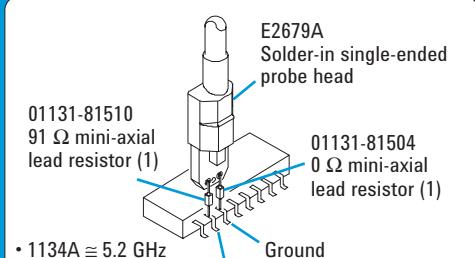
01131-62102 91  $\Omega$  resistor probe tips (2)

E2675A Differential browser probe head

Tab to adjust the distance between probe tips

- 1134A  $\approx$  6 GHz
- 1132A > 5 GHz
- 1131A > 3.5 GHz
- 1130A > 1.5 GHz
- Best hand (or probe holder) browser for differential and single-ended signals
- Similar capacitance to #2

### #4 Solder-in Single-ended



01131-81510 91  $\Omega$  mini-axial lead resistor (1)

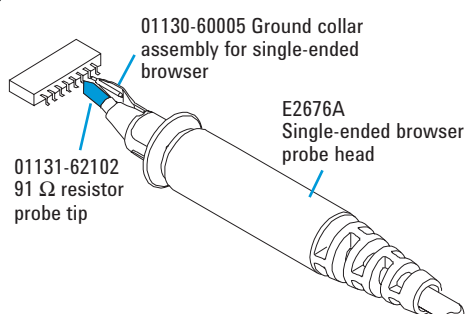
E2679A Solder-in single-ended probe head

01131-81504 0  $\Omega$  mini-axial lead resistor (1)

Signal Ground

- 1134A  $\approx$  5.2 GHz
- 1132A  $\approx$  4.8 GHz
- 1131A > 3.5 GHz
- 1130A > 1.5 GHz
- Smallest probe head for single-ended signals
- Lowest capacitance single-ended probe head
- Resistors must be cut to proper lengths (see manual).

### #5 Single-ended Browser



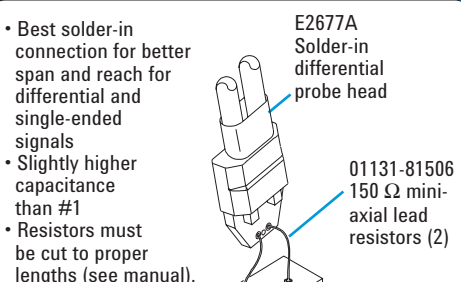
01131-62102 91  $\Omega$  resistor probe tip

E2676A Single-ended browser probe head

01130-60005 Ground collar assembly for single-ended browser

- Smallest browser for single-ended signals
- Slightly higher capacitance than #4
- 1134A  $\approx$  5.5 GHz
- 1132A  $\approx$  4.8 GHz
- 1131A > 3.5 GHz
- 1130A > 1.5 GHz

### #6 Solder-in Differential Mid Bandwidth



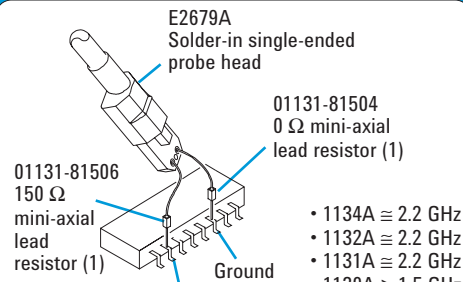
E2677A Solder-in differential probe head

01131-81506 150  $\Omega$  mini-axial lead resistors (2)

Probe either differential or single-ended signals

- Best solder-in connection for better span and reach for differential and single-ended signals
- Slightly higher capacitance than #1
- Resistors must be cut to proper lengths (see manual).
- 1134A  $\approx$  2.9 GHz
- 1132A  $\approx$  2.9 GHz
- 1131A  $\approx$  2.9 GHz
- 1130A > 1.5 GHz

### #7 Solder-in Single-ended Mid Bandwidth



E2679A Solder-in single-ended probe head

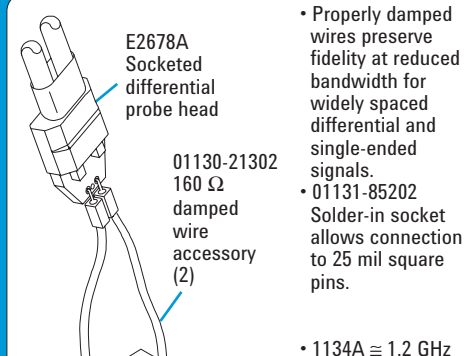
01131-81506 150  $\Omega$  mini-axial lead resistor (1)

01131-81504 0  $\Omega$  mini-axial lead resistor (1)

Signal Ground

- Smallest solder-in connection for better span and reach of single-ended signals
- Slightly higher capacitance than #4
- Resistors must be cut to proper length (see manual)
- 1134A  $\approx$  2.2 GHz
- 1132A  $\approx$  2.2 GHz
- 1131A  $\approx$  2.2 GHz
- 1130A > 1.5 GHz

### #8 Damped Wire Accessories



E2678A Socketed differential probe head

01130-21302 160  $\Omega$  damped wire accessory (2)

Probe either differential or single-ended signals

- Properly damped wires preserve fidelity at reduced bandwidth for widely spaced differential and single-ended signals.
- 01131-85202 Solder-in socket allows connection to 25 mil square pins.
- 1134A  $\approx$  1.2 GHz
- 1132A  $\approx$  1.2 GHz
- 1131A  $\approx$  1.2 GHz
- 1130A  $\approx$  1.2 GHz

Agilent Technologies

Printed in Malaysia

Part Number 01134-92002

