

# N7011A/12A Active Termination Adapters

## Quick Start and Accessories Guide

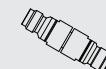
### Kit Contents

1.85 mm to 1.85 mm Adapter  
Assembly F-F (67 GHz)  
(with N7012A only)



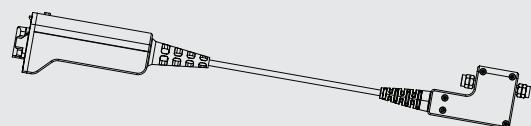
N5520B (Qty. 1)

Adapter-Coaxial Straight  
2.92 mm Jack 2.40 mm Jack  
50-Ohm (40 GHz, 150 V<sub>AC</sub>)  
(with N7011A only)



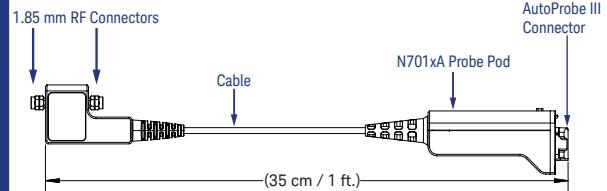
1250-3782 (Qty. 1)

Active Termination Adapter



N7011A/12A (Qty. 1)

## 1 Getting acquainted with the new N701xA Active Terminal Adapter Probe.

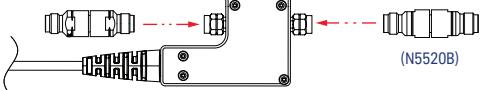


**i** For functional description & requirements, refer to N701xA User's Guide on [www.keysight.com](http://www.keysight.com).

## 2 Connect the N701xA's RF Connector to the adapter provided in the kit.

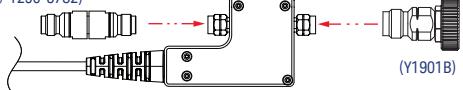
Coupling N7012A's RF connector to the 1.8 mm AutoProbe III Interface Connector.

(N5520B / 1250-3782)



Coupling N7011A's RF connector to the 1 mm AutoProbe III Interface Connector.

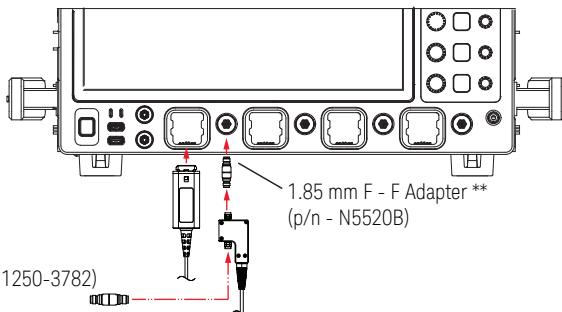
(N5520B / 1250-3782)



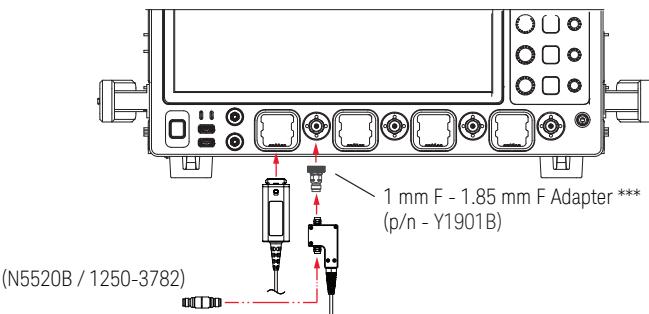
**i** For information on the supported male connectors, refer to N701xA User's Guide on [www.keysight.com](http://www.keysight.com).

## 3 Connect the N701xA Active Terminal Adapter Probe to the UXR Oscilloscope...

... With 1.85 mm front end



... With 1 mm front end



\*\* 1.85 mm F-F adapter is a standard accessory included with 1.85 mm UXR oscilloscope models.

\*\*\* 1 mm F Ruggedized to 1.85 mm F Adapter is a standard accessory included with 1 mm UXR oscilloscope models.

## N701xA Characteristics and Specifications

### Environmental Characteristics

Characteristic	Value
Temperature	-10 °C to +55 °C (operating) -30 °C to +70 °C (non-operating)
Altitude	3,000 m (9,842 ft) (operating) 15,300 m (50,196 ft) (non-operating)
Humidity	25% - 85% room humidity (operating) 25% - 85% room humidity (non-operating)
Pollution Degree	2

### Electrical Specifications

Specification	Rating
Bandwidth (-3 dB)	(N7012A) 59 GHz / (N7011A) 40 GHz
Rise time (10% to 90%)	(N7012A) 7.4 ps / (N7011A) 10.9 ps
Attenuation ratio	1.18:1
$V_{term}$ range	$\pm 4$ V
$V_{term}$ accuracy	$\pm 2$ mV
$V_{offset}$ range	$\pm 4$ V
Input signal range	$-0.6 \pm (V_{in} - V_{term}) \pm 0.6$ V
Input resistance at DC	50 ohm $\pm 3\%$
Maximum input voltage	$\pm 4$ V <sub>dc</sub> to 50 kHz, 2.8 V <sub>rms</sub> above 50 kHz

**CAUTION** To avoid damaging the N7011A/12A, the maximum low frequency voltage on the input should not exceed  $\pm 4$  V. To avoid damaging the oscilloscope input, the maximum AC voltage should not exceed 2.8 V<sub>rms</sub> (which is 0.16 W into 50 ohms).

