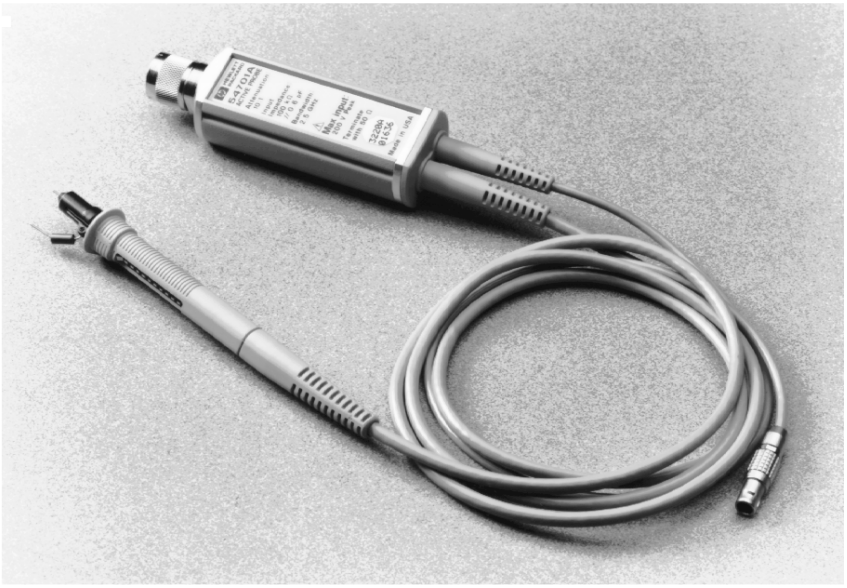
HP 54701A Active Probe Specifications



HP 54701A 2.5-GHz Active Probe Specifications

Bandwidth (–3 dB)	>2.5 GHz	**Flatness**	<3 ns from rising edge: ±6% ≥3 ns from rising edge: ±1%
Rise Time (calculated from Tr = 0.35/BW)	<140 ps	**Dynamic Range (<1.5% gain compression)**	5 V peak ac ±50 Vdc
Attenuation Factor	10:1	**Offset Adjustment**	±50 V at the probe tip
dc Input Resistance	100 kΩ±1%	**RMS Output Noise**	(dc to 2.5 GHz with input loaded in 50-Ω Terminator)
dc Gain Accuracy	±0.5%	**Maximum Input Voltage**	±200 V[dc + peak ac (<20 MHz)
Input Capacitance	<0.6 pF (typical)	**ESD Tolerance (150 Ω/150 pF)**	±12 kV

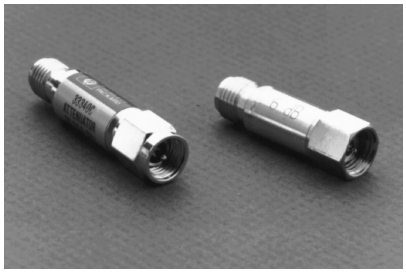
Option 001

Type N (f) to 3.5 mm (f) adaptor
External thread 3.5 mm adaptor to securely connect HP 54701A probe to HP 54750 series plug-ins.

HP 33340 Attenuators

Using the Proper Attenuator

HP offers two families of ultra-high bandwidth fixed attenuators. The HP 33340C Series are dc to 26.5-GHz attenuators and use 3.5-mm connectors. The HP 33340D Series are dc to 50-GHz attenuators with 2.4-mm connectors. Use the 26.5-GHz attenuator family to attenuate input signals with rise times as fast as 30 ps for minimum time domain distortion. If the signals being analyzed are faster than this, the HP 33340D Series is recommended. When using the HP 33340D Series atenuators, use 2.4-mm to a 3.5-mm connector adapters.



HP 33340C 26.5 GHz APC 3.5 mm attenuators (left)
HP 33340D 50 GHz 2.4 mm attenuators (right)
tains a SMA(f) to BNC(m) adapter (HP 1250-2015)