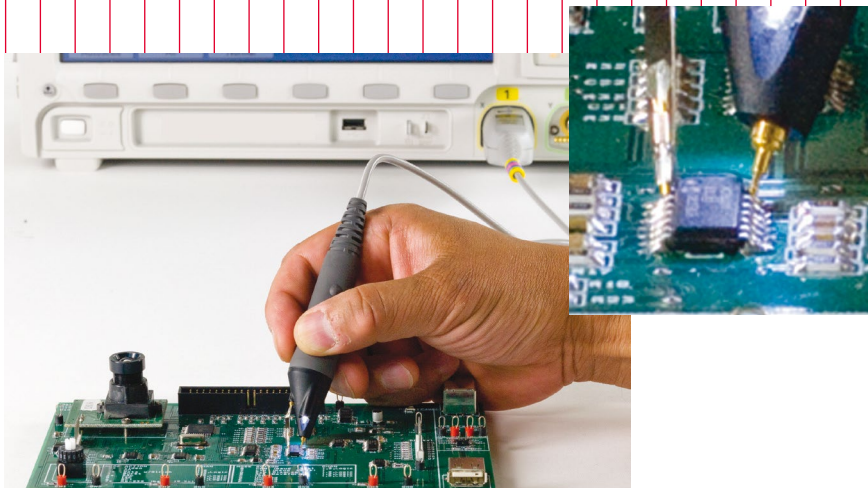
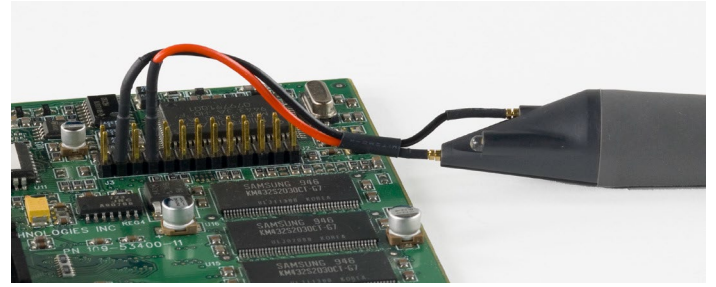
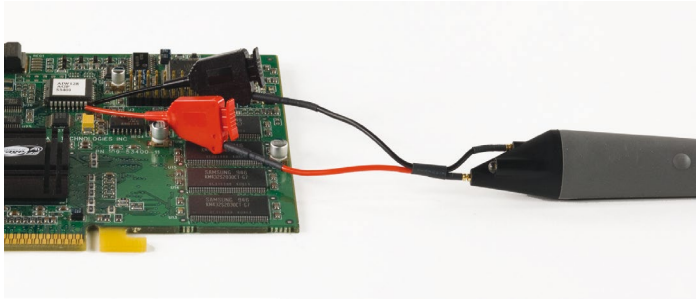


Keysight Technologies N2795A/96A/97A Single-ended Active Probes

Data Sheet





Use flex nose clip adapters with the dual lead adapter to obtain access to IC leads or head connectors.

The dual lead adapter allows you to easily connect the probe to a popular 0.1" pin header with 0.025" square pins.

	N2795A	N2796A	N2797A
Probe bandwidth* (-3 db)	1 GHz	2 GHz	1.5 GHz**
Risetime (calculated, 10-90%)	350 psec	175 psec	233 psec
System bandwidth (with Keysight oscilloscope)	500/600 MHz (with Keysight's 500/600 MHz InfiniiVision/Infiniium oscilloscope)	1 GHz (with Keysight's 1 GHz InfiniiVision/Infiniium oscilloscope)	1 GHz (with Keysight's 1 GHz InfiniiVision/Infiniium oscilloscope)
Attenuation ratio (@DC)		10:1 ± 0.5%	
Input dynamic range	-8 V to +8 V (DC or peak AC)		
Non-destructive max input voltage	-20 V to +20 V		
Offset range	±8 V	±12 V	±12 V
DC offset error (Output zero)	< ±1 mV		
Flatness (at 25 °C)	Typical 0.4 dB (100 kHz - 100 MHz)		Typical 0.3 dB (10 Hz - 100 MHz)
	Typical 0.6 dB (100 MHz - 500 MHz)		Typical 0.8 dB (100 MHz - 1 GHz)
	Typical 0.8 dB (500 MHz - 1 GHz)		Typical 2.0 dB (1 GHz - 1.5 GHz)
	Typical 1.3 dB (1 GHz - 2 GHz)		
Flatness over temperature (-40 to +85 °C)			Typical 0.3 dB (10 Hz - 100 kHz)
			Typical 0.6 dB (100 kHz - 100 MHz)
			Typical 0.8 dB (100 MHz - 500 MHz)
			Typical 2.0 dB (500 MHz - 1 GHz)
Input resistance*	1 MΩ +0 %, -2.5 %		1 MΩ ±3%
Input capacitance		1 pF	
Probe noise	< 2.5 mVrms (referred to input)		
Output impedance	50 Ω		

	N2795A	N2796A	N2797A
Internal power	Keysight Autoprobe Interface from scope (InfiniiVision and Infiniium)		
Cable length	1.3 m		2 m
Probe weight	Approx. 100 g		Approx. 108 g
Ambient operating Temperature	0 to 50 °C		-40 to +85 °C
Ambient non-operating temperature	-40 to 70 °C		-40 to +85 °C
Operating humidity		95% RH @ 40 °C	
Non-operating humidity		90% RH @ 65 °C	
Operating altitude		4000 m	
ESD		8 kV HBM	
Standard accessories	- 2 each spring probe tip		- 10 each solderable tip
	- 2 rigid probe tip		- 5 each rigid probe tip
	- 1 each flex nose clip adapter (red and black)		- 2 each flex nose clip adapter (red and black)
	- 1 each copper pad, 10x 9 cm		- 1 each pico hook tip (red and black)
	- 1 each dual lead socketed adapter, 9 cm		- 2 each dual lead socketed adapter, 9 cm (800 MHz)
	- 1 each right angle ground, 5 cm		- 2 each dual lead socketed adapter, 6 cm (1 GHz)
	- 1 each right angle ground, 10 cm		- 2 each right angle ground, 5 cm
	- 2 each ground blade		- 2 each ground blade
	- 1 each offset ground		- 4 color coded rings (each yellow, green, blue and purple)
	- 1 each flex ground		- 2 each right angle ground, 5 cm
- 4 color coded rings (each yellow, green, blue and purple)		- 2 each ground blade	
- 4 color coded rings (each yellow, green, blue and purple)		- 4 color coded rings (each yellow, green, blue and purple)	
Others (included)	-1 each accessory configuration card		
Compatible Keysight scopes	Keysight InfiniiVision 3000 X-, 4000 X-, 6000 X-, 5000, 6000, 7000 (except 6000 100MHz) and Infiniium S-Series, 9000, 90000A, 90000 X-, 90000 Q-, Z-Series(with N5442A)	Keysight InfiniiVision 3000 X-, 4000 X-, 6000 X-, and Infiniium S-Series, 9000, 90000A, 90000 X-, 90000 Q-, Z-Series (with N5442A)	

* denotes warranted electrical specifications after 20 minute warm-up, all others are typical
 ** typical 2 GHz, when used with rigid probe tip, ground blade and handheld



N4839A Dual lead socketed adapter, 6 cm



N4840A Dual lead solder-in adapter, 5 cm



N4841A Dual lead socketed adapter, 9 cm



N4842A Dual pin PCB header



N4843A Solderable tips, qty 10



N4844A Right angle ground lead, 5 cm



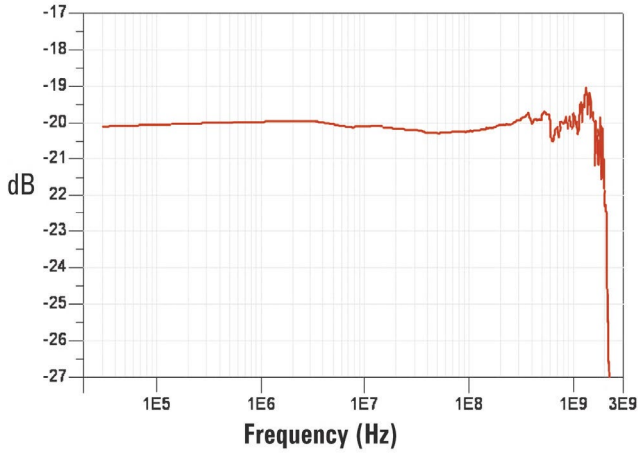
N4845A Ground blade



N4846A Offset ground

Model number	Description
N2795A	1 GHz single-ended active probe
N2796A	2 GHz single-ended active probe
N2797A	1.5 GHz extreme temperature single-ended active probe
N2798A	Accessory kit for N2797A
N4839A	Dual lead socketed adapter, 6 cm (1.4 GHz, not included in the N2795A/96A standard probe kit)
N4840A	Dual lead solder-in adapter, 5 cm (1.4 GHz, not included in the standard probe kit)
N4841A	Dual lead socketed adapter, 9 cm (1 GHz)
N4842A	Dual pin PCB header (not included in the standard probe kit)
N4843A	Solderable tips, qty 10
N4844A	Right angle ground lead, 5 cm
N4845A	Ground blade
N4846A	Offset ground

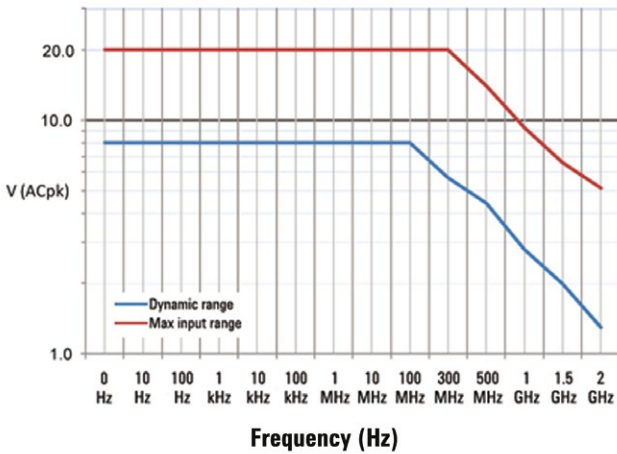
Measurement Plots



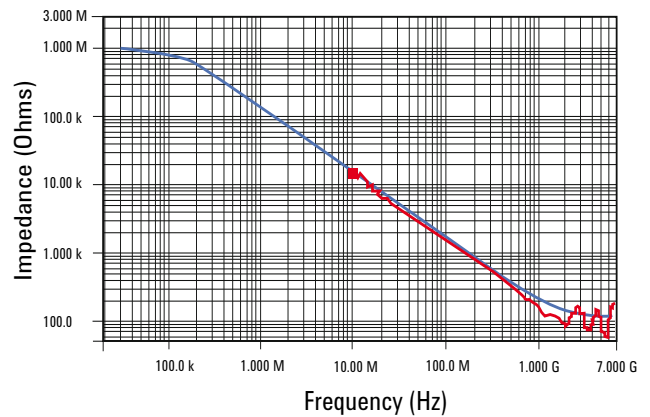
Frequency response of N2796A (Vout/Vin)



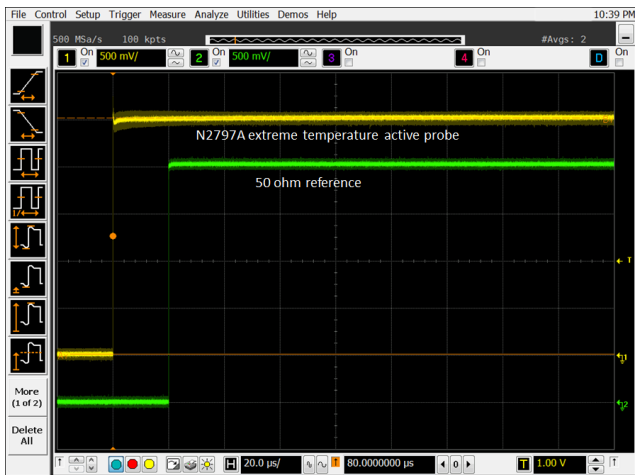
Time domain step response of N2796A (with Keysight MSO9404A)



Voltage derating over frequency (N2796A)



Input impedance over frequency (Red = measured, Blue = model)



N2797A measuring a step signal over -40 to +90 °C, oscilloscope in infinite persistence mode

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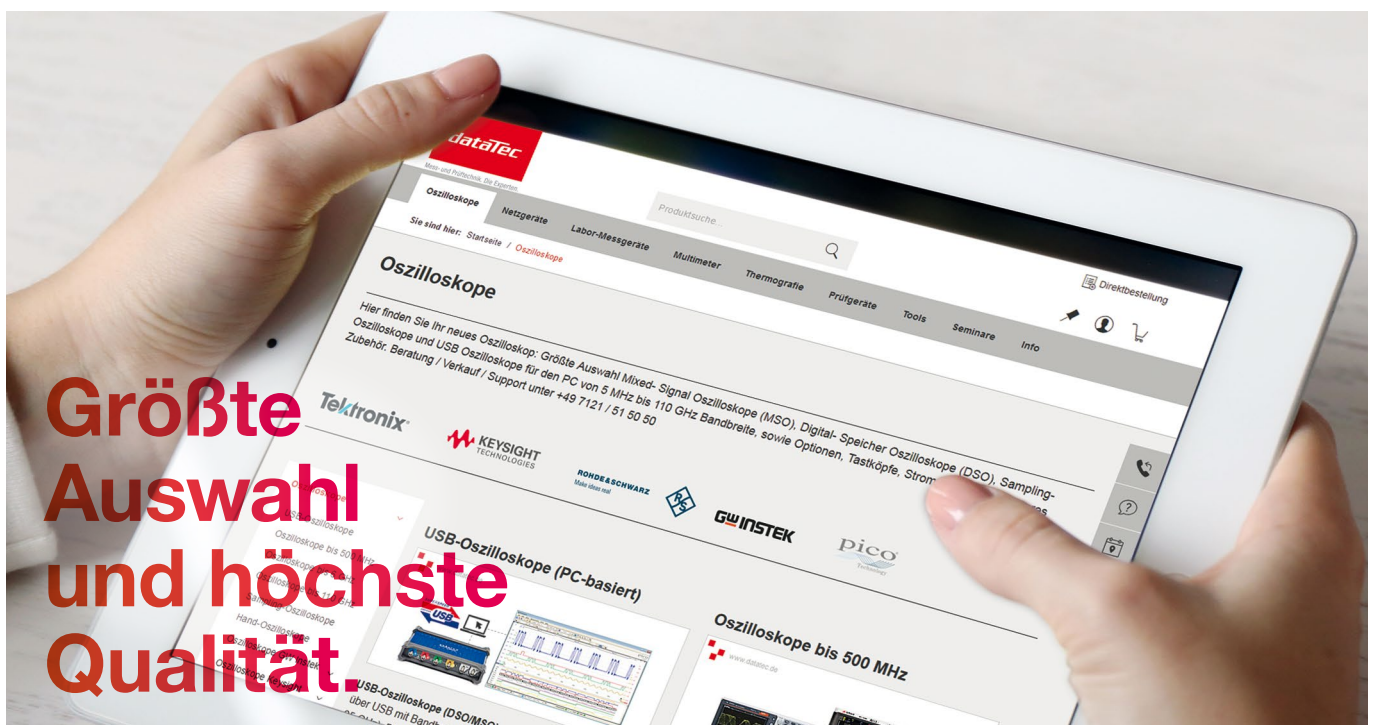
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