KEYSIGHT TECHNOLOGIES

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N2840/1/2/3A & N2853A Passive Probes

The N2840/1/2/3A and N2853A series probes are high-impedance passive probes designed for use with oscilloscopes. The probes are calibrated to work effectively with scopes that have an input impedance of 1MΩ shunted by 11 pF. You can also use the probes with scopes that have a 5 – 30 pF input capacitance.

Accessories

Accessories Supplied with Probe



Item	Description	Quantity
1	Retractable Hook	1
2	Spare Probe Tip	2
3	Ground Spring	1
4	Insulating Cap	1
5	IC Insulating Cap	1

Item	Description	Quantity
6	BNC Adapter	1 †
7	Alligator Ground Lead (12 cm)	1
8	Adjustment Tool	1
9	Channel Identification Tags 2 each color (green, yellow, purple, pink)	8

† Not included with N2840A.

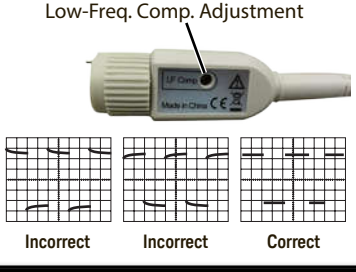
Replacement and Available Accessories

- N2856A Kit (standard accessories shown above without probe)
- N2857A Alligator Ground Lead
- N2858A Retractable Hook Tip
- N2859A Replaceable Probe Tip
- PCB Socket Adapter* (0960-2922)
- Dual-Lead Adapter* (0960-2923)

(* not supplied with probe)

Probe Low-Frequency Compensation

1. Connect probe to scope channel. Connect probe to probe calibration and ground lug on scope.
2. Press Autoscale.
3. Adjust scope to display two or three waveform cycles over two to six vertical divisions.
4. Adjust compensation adjustment on probe for flattest pulse.

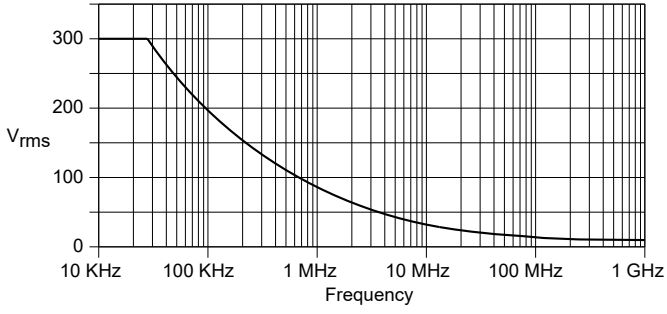


Characteristics

Probe	N2840A	N2841A	N2842A	N2843A	N2853A
BW (–3 dB)	50 MHz	150 MHz	300 MHz	500 MHz	350 MHz
Attenuation Ratio	10:1	10:1	10:1	10:1	10:1
Rise Time (10% - 90%)	7 ns	2.3 ns	1.2 ns	0.7 ns	1 ns
Input R (with 1 MΩ input)	10 MΩ	10 MΩ	10 MΩ	10 MΩ	10 MΩ
Input C	~11 pF	~11 pF	~11 pF	~11 pF	~11 pF
Compensation Range	5–30 pF	5–30 pF	5–30 pF	5–30 pF	5–30 pF
Max. Input V	300 VRMS CAT II				
Probe ID	No	Yes	Yes	Yes	Yes
Cable Length	1.2m	1.2m	1.2m	1.3m	2m
Safety	Conformance to IEC 61010-031:2015				
Operating Temperature	0 to 50° C, 80% RH				
Storage Temperature	0 to 50° C, 80% RH				

Typical Voltage Derating Curve (Measurement CAT II)

WARNING. The maximum input voltage rating of the probe decreases as the frequency of the applied signal increases.



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