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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 $1M\Omega$ 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	Item	Description Q	antity
1	Retractable Hook	1	6	BNC Adapter	1 †
2	Spare Probe Tip	2	7	Alligator Ground Lead (12 cm)	1
3	Ground Spring	1	8	Adjustment Tool	1
4	Insulating Cap	1	9	Channel Identification Tags	8
5	IC Insulating Cap	1		2 each color (green, yellow, purple, pink)	

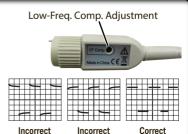
[†] Not included with N2840A

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

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



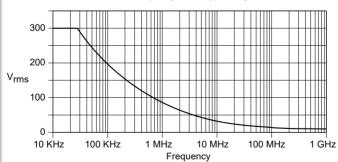
Characteristics

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 ΜΩ						
Input C	~11 pF						
Compensation Range	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 O to 50° C, 80% RH remperature							
Storage 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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