

Keysight U1818A/B 7/12 GHz Active Differential Probes

The U1818A/B provides a high frequency probing solution for R&D and quality assurance engineers performing RF/Microwave and high-speed digital design and validation in wireline, wireless communications and aerospace/defense industries while taking full advantage of Keysight's RF analyzers capability.



High frequency probing with Keysight's MXA signal analyzer

Key application

- General purpose RF
- Design, test & validation
- Oscillator and PLL

The probe can...

- Measure both single ended and differential signals
- Probe RF traces without removing any components
- Be used with NA to perform response calibration

Key features

- Broad bandwidth with flat frequency response, ± 1.5 dB, which ensures excellent measurement accuracy and helps users achieve the best product specifications
- Low noise floor, < -130 dBm/Hz at 10 MHz to 12 GHz, which allows measurements to be made at low signal amplitude
- Convenient biasing from Keysight's RF and microwave instruments probe power port or bench top power supply for user flexibility

Product specifications (Typical)

Model	Frequency	Input impedance at 1 MHz	Nominal probe attenuation	Maximum CW input power	Maximum DC input voltage	Common mode rejection
U1818A	100 kHz to 7 GHz	Single ended: 25 K Ω	-10 dB	16 dBm	± 10 V	< 2 GHz: 35 dB
U1818B	100 kHz to 12 GHz	Differential: 50 K Ω				2 to 12 GHz: < 30 dB

Probe head options

Model	Description
N5380B	12 GHz differential SMA adapter
N5381A	12 GHz differential solder-In
N5382A	12 GHz differential browser
N5425/6A	12 GHz differential ZIF probe head/tip

Related accessories

Model	Description
11582B	Minimum loss attenuator pad
N2880A	In-line attenuator kit
N2881A	DC blocking capacitor
N2784A	1-arm probe positioner
N2785A	2-arm probe positioner
N2787A	3D probe positioner
N5450B	Extreme temperature extension cable

Check out the application note “High Frequency Probing Solutions for Time and Frequency Domain Applications”, literature number 5989-4837EN.

For more information on Keysight probes, please visit www.keysight.com/RFprobes

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