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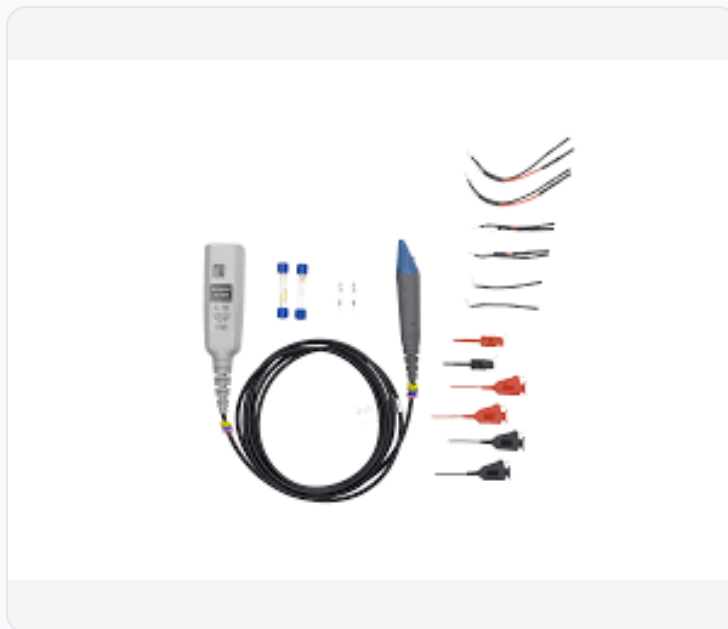
**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight N2797A

HP Agilent Keysight N2797A Extreme Temperature Active Probe 1.5 GHz The Keysight N2797A is a 1.5 GHz single-ended active probe designed for extreme temperature probing from -40 C to plus 85 C with a 2 m cable. OEM data sheet 5990-6480EN lists plus or minus 8 V dynamic range, plus or minus 12 V offset range, 1 MOhm input resistance, and AutoProbe power from InfiniiVision and Infiniium scopes. Environmental chamber and extreme temperature IC and device probing where the probe tip must operate from -40 C to plus 85 C. The Keysight N2797A is a 1.5 GHz single-ended active probe designed for extreme temperature probing from -40 C to plus 85 C with a 2 m cable. OEM data sheet 5990-6480EN lists plus or minus 8 V dynamic range, plus or minus 12 V offset range, 1 MOhm input resistance, and AutoProbe power from InfiniiVision and Infiniium scopes. Environmental chamber and extreme temperature IC and device probing where the probe tip must operate from -40 C to plus 85 C. Extreme temperature tip operation -40 C to plus 85 C



|                                           |                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| MODEL<br><b>Agilent / Keysight N2797A</b> | CALIBRATION<br><b>Available on request</b>                                                                         |
| CONDITION<br><b>Used</b>                  | STATUS<br><b>In stock</b>                                                                                          |
| RFQ / SKU<br><b>N2797A</b>                | LISTING<br><a href="https://aumictechlabs.com/products/n2797a-2/">https://aumictechlabs.com/products/n2797a-2/</a> |

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## This unit

The Agilent/Keysight N2797A is a 3 GHz single-ended active probe engineered for high-frequency signal acquisition in modern electronic designs. It delivers precise measurements across demanding test scenarios while maintaining minimal loading effects on the Device Under Test. The probe features 1 MΩ input resistance and 1 pF input capacitance - a combination that

preserves signal integrity at high frequencies. Its design prioritizes accurate capture of fast transients and low-level signals through inherently low noise performance.

**Technical Specifications**

- Bandwidth: 3 GHz
- Input Resistance: 1 M $\Omega$
- Input Capacitance: 1 pF
- Attenuation: Typically 10:1
- Common Mode Rejection Ratio: Varies with frequency
- Transient Response: Capable of accurately capturing fast-changing signal edges
- Measurement Accuracy: High accuracy enabled by low input capacitance and resistance

**Key Features**

- Minimized loading effects on high-speed test points through high input impedance design
- Signal integrity optimization reduces distortion across the 3 GHz bandwidth
- Low input capacitance (1 pF) preserves signal fidelity in capacitance-sensitive circuits
- Solid probe tip engineered for reliable contact with DUT test points
- Durable construction suitable for laboratory and field environments

**Typical Applications**

- High-speed digital design verification and debugging
- RF circuit analysis and characterization
- High-frequency component testing
- Signal integrity analysis

**Compatibility & Integration**

Designed for oscilloscopes with 50  $\Omega$  input impedance. Compatible with Agilent/Keysight oscilloscope platforms and other measurement systems meeting the required interface and power specifications. Operates via dedicated connector for power and control signals from the oscilloscope.

## N2797A Characteristics / Specifications

| PARAMETER                                       | VALUE                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Instrument Type                                 | Extreme temperature single-ended active probe                                                                            |
| Bandwidth                                       | 1.5 GHz                                                                                                                  |
| Input Dynamic Range                             | -8 V to plus 8 V (DC or peak AC)                                                                                         |
| Offset Range                                    | plus or minus 12 V                                                                                                       |
| Dc Offset Error Output Zero                     | less than plus or minus 1 mV                                                                                             |
| Input Resistance                                | 1 MOhm plus or minus 3 percent                                                                                           |
| Input Capacitance                               | approximately 1 pF                                                                                                       |
| Probe Power                                     | Keysight AutoProbe interface from scope                                                                                  |
| Cable Length                                    | 2 m                                                                                                                      |
| Probe Weight                                    | approximately 108 g                                                                                                      |
| Extreme Tip Operating Temperature               | -40 C to plus 85 C                                                                                                       |
| Operating Altitude                              | 4000 m                                                                                                                   |
| Esd                                             | 8 kV HBM                                                                                                                 |
| Attenuation Flatness Typical 10 Hz To 100 KHz   | 0.3 dB                                                                                                                   |
| Attenuation Flatness Typical 100 KHz To 100 Mhz | 0.6 dB                                                                                                                   |
| Attenuation Flatness Typical 100 Mhz To 500 Mhz | 0.8 dB                                                                                                                   |
| Attenuation Flatness Typical 500 Mhz To 1 Ghz   | 2.0 dB                                                                                                                   |
| Attenuation Flatness Typical 1 Ghz To 1p5 Ghz   | 2.5 dB                                                                                                                   |
| Series Family                                   | Keysight N2795A/96A/97A                                                                                                  |
| Literature                                      | Keysight 5990-6480EN                                                                                                     |
| Accessory Kit Model                             | N2798A                                                                                                                   |
| Standard Accessories Class                      | Spring tips rigid tips flex nose clip copper pads dual lead socketed ground blades offset ground flex ground color rings |

| PARAMETER             | VALUE                                     |
|-----------------------|-------------------------------------------|
| Attenuation           | Flatness Typical 10 Hz To 100 Khz: 0.3 dB |
| Operating temperature | 40 C to plus 85 C                         |

# N2797A Specifications

| PARAMETER                             | VALUE                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Applications                          | Environmental chamber and extreme temperature IC and device probing where the probe tip must operate from -40 C to plus 85 C. |
| Key Features                          | Extreme temperature tip operation -40 C to plus 85 C                                                                          |
| Keysight AutoProbe powered from scope | Dedicated accessory kit N2798A                                                                                                |
| Technical Specifications              | Instrument Type: Extreme temperature single-ended active probe                                                                |

## General Specifications & Supplementary Characteristics

| PARAMETER                                       | VALUE                                         |
|-------------------------------------------------|-----------------------------------------------|
| Operating temperature                           | 40 C to plus 85 C                             |
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| Instrument Type                                 | Extreme temperature single-ended active probe |
| Bandwidth                                       | 1.5 GHz                                       |
| Input Dynamic Range                             | -8 V to plus 8 V (DC or peak AC)              |
| Offset Range                                    | plus or minus 12 V                            |
| Dc Offset Error Output Zero                     | less than plus or minus 1 mV                  |
| Input Resistance                                | 1 MOhm plus or minus 3 percent                |
| Input Capacitance                               | approximately 1 pF                            |
| Probe Power                                     | Keysight AutoProbe interface from scope       |
| Cable Length                                    | 2 m                                           |
| Probe Weight                                    | approximately 108 g                           |
| Extreme Tip Operating Temperature               | -40 C to plus 85 C                            |
| Operating Altitude                              | 4000 m                                        |
| Esd                                             | 8 kV HBM                                      |
| Attenuation Flatness Typical 10 Hz To 100 KHz   | 0.3 dB                                        |
| Attenuation Flatness Typical 100 KHz To 100 Mhz | 0.6 dB                                        |
| Attenuation Flatness Typical 100 Mhz To 500 Mhz | 0.8 dB                                        |
| Attenuation Flatness Typical 500 Mhz To 1 Ghz   | 2.0 dB                                        |
| Attenuation Flatness Typical 1 Ghz To 1p5 Ghz   | 2.5 dB                                        |
| Series Family                                   | Keysight N2795A/96A/97A                       |
| Literature                                      | Keysight 5990-6480EN                          |

| PARAMETER                  | VALUE                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessory Kit Model        | N2798A                                                                                                                                                                                                                                                                                                             |
| Standard Accessories Class | Spring tips rigid tips flex nose clip copper pads dual lead socketed ground blades offset ground flex ground color rings Notes From Keysight N2795A/96A/97A Single-ended Active Probes data sheet 5990-6480EN model N2797A column. Extreme temperature rating applies to probe tip/environment per that datasheet. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Environmental chamber and extreme temperature IC and device probing where the probe tip must operate from -40 C to plus 85 C.

Key Features

Extreme temperature tip operation -40 C to plus 85 C

1.5 GHz bandwidth with 2 m cable

Keysight AutoProbe powered from scope

Dedicated accessory kit N2798A

Low input capacitance about 1 pF

Technical Specifications

## Technical Specifications

| PARAMETER                         | VALUE                                         |
|-----------------------------------|-----------------------------------------------|
| Instrument Type                   | Extreme temperature single-ended active probe |
| Bandwidth                         | 1.5 GHz                                       |
| Input Dynamic Range               | -8 V to plus 8 V (DC or peak AC)              |
| Offset Range                      | plus or minus 12 V                            |
| Dc Offset Error Output Zero       | less than plus or minus 1 mV                  |
| Input Resistance                  | 1 MOhm plus or minus 3 percent                |
| Input Capacitance                 | approximately 1 pF                            |
| Probe Power                       | Keysight AutoProbe interface from scope       |
| Cable Length                      | 2 m                                           |
| Probe Weight                      | approximately 108 g                           |
| Extreme Tip Operating Temperature | -40 C to plus 85 C                            |
| Operating Altitude                | 4000 m                                        |
| Esd                               | 8 kV HBM                                      |

Attenuation Flatness Typical 10 Hz To 100 Khz: 0.3 dB

Attenuation Flatness Typical 100 Khz To 100 Mhz: 0.6 dB

Attenuation Flatness Typical 100 Mhz To 500 Mhz: 0.8 dB

Attenuation Flatness Typical 500 Mhz To 1 Ghz: 2.0 dB

Attenuation Flatness Typical 1 Ghz To 1p5 Ghz: 2.5 dB

## Specifications

| PARAMETER           | VALUE                   |
|---------------------|-------------------------|
| Series Family       | Keysight N2795A/96A/97A |
| Literature          | Keysight 5990-6480EN    |
| Accessory Kit Model | N2798A                  |

| PARAMETER                  | VALUE                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Standard Accessories Class | Spring tips rigid tips flex nose clip copper pads dual lead socketed ground blades offset ground flex ground color rings |

Notes

From Keysight N2795A/96A/97A Single-ended Active Probes data sheet 5990-6480EN model N2797A column. Extreme temperature rating applies to probe tip/environment per that datasheet.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.