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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0025A

Keysight MX0025A InfiniiMax Ultra 25 GHz Probe Amplifier The Keysight MX0025A is the 25 GHz InfiniiMax Ultra probe amplifier with AutoProbe 2 interface, RC input impedance architecture, and auto-selected attenuation ranges for low loading high-speed probing. Serial links up to about 12 Gbps requiring up to 25 GHz probe bandwidth, high-speed digital validation. Auto-selected multi-ratio attenuation with wide dynamic ranges The Keysight MX0025A is the 25 GHz InfiniiMax Ultra probe amplifier with AutoProbe 2 interface, RC input impedance architecture, and auto-selected attenuation ranges for low loading high-speed probing. Serial links up to about 12 Gbps requiring up to 25 GHz probe bandwidth, high-speed digital validation. Auto-selected multi-ratio attenuation with wide dynamic ranges Works with MX0100A micro probe head and Ultra/III accessory ecosystem



MODEL

**Agilent / Keysight
MX0025A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX0025A

LISTING

<https://aumictechlabs.com/products/mx0025a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MX0025A InfiniiMax Ultra Series probe amplifier delivers 25 GHz bandwidth for high-speed signal integrity measurements on emerging technologies including DDR5 and MIPI interfaces. This probe amplifier employs RC input impedance architecture to minimize mid-band loading and circuit loading effects, enabling accurate measurements without signal distortion. The MX0025A measures differential, single-ended, and common mode signals from a single probe tip,

supported by three flexible attenuation ratios and corresponding input dynamic ranges: 600 mVpp at 1:1, 2.5 Vpp at 4:1, and 5 Vpp at 8:1. The probe amplifier extends 1346.2 mm with a 1181.1 mm cable assembly. Technical Specifications Bandwidth: 25 GHz Input Impedance: 25 k Ω $\pm$ 2% single-ended; 50 k Ω $\pm$ 2% differential (with 25 k Ω probe heads); RC architecture for low mid-band loading Attenuation Ratios: 1:1, 4:1, 8:1 Input Dynamic Ranges: 600 mVpp (1:1), 2.5 Vpp (4:1), 5 Vpp (8:1) Input Common Mode Range: $\pm$ 8 V DC to 100 Hz; $\pm$ 0.5 V @ 1:1 (>100 Hz); $\pm$ 4 V @ 4:1 (>100 Hz) Probe Amplifier Length: 1346.2 mm (53 inches) Cable Length: 1181.1 mm (46.5 inches) Key Features InfiniiMode capability enables differential, single-ended, and common mode signal measurement without probe reconnection S-parameter DSP correction for improved measurement accuracy User-defined AC calibration support AutoProbe II interface enables auto-configuration of attenuation, power, and offset settings on compatible oscilloscopes Supports micro probe heads for probing miniaturized devices Compatibility & Integration The MX0025A interfaces with Infiniium UXR-, 90000 X-, Q-, V-, and Z-Series oscilloscopes. AutoProbe II connectivity provides automatic probe type recognition and instrument configuration when paired with compatible Keysight instruments.

MX0025A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0025A
Instrument Type	InfiniiMax Ultra series probe amplifier
Bandwidth	25 GHz
Interface	AutoProbe 2
Dc Input Resistance Single Ended	25 kOhm plus or minus 2 percent with 25 kOhm probe heads
Dc Input Resistance Differential	50 kOhm plus or minus 2 percent
Input Dynamic Range Attenuation 1 To	0.6 Vpp plus or minus 0.3 V
Input Dynamic Range Attenuation 4 To	2.5 Vpp plus or minus 1.25 V
Input Dynamic Range Highest Attenuation	5.0 Vpp plus or minus 2.5 V at 7.6 to 1
Dc Attenuation Ratios	1 to 1, 4 to 1, and 7.6 to 1 auto selected
Input Common Mode Range Dc To 100 Hz	plus or minus 8 V
Input Common Mode Above 100 Hz Attenuation 1 To	plus or minus 0.5 V
Input Common Mode Above 100 Hz Attenuation 4 To	plus or minus 4 V
Offset Range	plus or minus 16 V
Offset Accuracy	less than 3 percent
Noise Density Attenuation 1 To	25 nV per square root Hz class Ultra literature
Rms Noise Attenuation 1 To 1 At 25 GHz	3.95 mVrms
Rms Noise Attenuation 4 To 1 At 25 GHz	6.28 mVrms
Rms Noise Highest Attenuation At 25 GHz	7.10 mVrms at 7.6 to 1
Propagation Delay	approximately 6.1 ns
Maximum Non Destructive Input Voltage	30 V peak mains isolated
Input Capacitance Diff With Mx0100A	170 fF
Input Capacitance Se With Mx0100A	260 fF

PARAMETER	VALUE
Rise Time Ten Ninety With Mx0100A	17.4 ps
Rise Time Twenty Eighty With Mx0100A	12.3 ps
Architecture	RC input impedance profile
Compatible Head Example Mx0106A Bandwidth	23 GHz system limited by head
Series Sibling Models	MX0020A 10 GHz MX0021A 13 GHz MX0022A 16 GHz MX0024A 20 GHz
Rise Time	Ten Ninety With Mx0100A: 17.4 ps
Attenuation	1 To 1: 0.6 Vpp plus or minus 0.3 V

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.

Specifications	
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PARAMETER	VALUE
Model	MX0025A
Instrument Type	InfiniiMax Ultra series probe amplifier
Bandwidth	25 GHz
Interface	AutoProbe 2
Dc Input Resistance Single Ended	25 kOhm plus or minus 2 percent with 25 kOhm probe heads
Dc Input Resistance Differential	50 kOhm plus or minus 2 percent
Input Dynamic Range Attenuation 1 To 1	0.6 Vpp plus or minus 0.3 V
Input Dynamic Range Attenuation 4 To 1	2.5 Vpp plus or minus 1.25 V
Input Dynamic Range Highest Attenuation	5.0 Vpp plus or minus 2.5 V at 7.6 to 1
Dc Attenuation Ratios	1 to 1, 4 to 1, and 7.6 to 1 auto selected
Input Common Mode Range Dc To 100 Hz: plus or minus 8 V	
Input Common Mode Above 100 Hz Attenuation 1 To 1: plus or minus 0.5 V	
Input Common Mode Above 100 Hz Attenuation 4 To 1: plus or minus 4 V	
Specifications	
PARAMETER	VALUE
Offset Range	plus or minus 16 V
Offset Accuracy	less than 3 percent
Noise Density Attenuation 1 To 1	25 nV per square root Hz class Ultra literature
Rms Noise Attenuation 1 To 1 At 25 GHz: 3.95 mVrms	
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PARAMETER	VALUE
Rms Noise Highest Attenuation At 25 GHz	7.10 mVrms at 7.6 to 1
Propagation Delay	approximately 6.1 ns
Maximum Non Destructive Input Voltage	30 V peak mains isolated
Input Capacitance Diff With Mx0100A	170 fF

PARAMETER	VALUE
Input Capacitance Se With Mx0100A	260 fF
Rise Time Ten Ninety With Mx0100A	17.4 ps
Rise Time Twenty Eighty With Mx0100A	12.3 ps
Architecture	RC input impedance profile
Compatible Head Example Mx0106A Bandwidth	23 GHz system limited by head
Series Sibling Models	MX0020A 10 GHz MX0021A 13 GHz MX0022A 16 GHz MX0024A 20 GHz

Notes
Bandwidth, resistances, dynamic ranges, common-mode, offset, noise, delay, capacitance, and rise times from Keysight InfiniiMax Ultra Series Probes and Accessories data sheet (MX0025A rows).

Available from Aumictech

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

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

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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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.