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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0023A

Keysight MX0023A InfiniiMax 25 GHz RC Probe Amplifier The Keysight MX0023A InfiniiMax RC probe amplifier provides up to 25 GHz bandwidth with RC input impedance (25 kOhm SE / 50 kOhm diff, 170 fF with MX0100A) and autoswitchable 1:1 / 4:1 attenuation. DDR5/LPDDR5 and MIPI high-speed debug, environmental probing with wide-temperature heads. AutoProbe II compatibility with Infiniium high-performance scopes The Keysight MX0023A InfiniiMax RC probe amplifier provides up to 25 GHz bandwidth with RC input impedance (25 kOhm SE / 50 kOhm diff, 170 fF with MX0100A) and autoswitchable 1:1 / 4:1 attenuation. DDR5/LPDDR5 and MIPI high-speed debug, environmental probing with wide-temperature heads. AutoProbe II compatibility with Infiniium high-performance scopes Instrument Type: InfiniiMax RC probe amplifier



MODEL

**Agilent / Keysight
MX0023A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX0023A

LISTING

<https://aumictechlabs.com/products/mx0023a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight MX0023A is a 25 GHz InfiniiMax RC probe amplifier engineered for high-bandwidth measurements in modern high-speed digital interfaces. Built on proprietary ASIC technology with RC input impedance architecture, it delivers superior signal fidelity and low noise performance. The amplifier features auto-switchable 1:1 and 4:1 attenuation, enabling dynamic range selection across measurement scenarios, and integrates probe-specific S-parameter

correction filtering for flat frequency response across the full bandwidth. Technical Specifications

Bandwidth & Input Characteristics Bandwidth: 25 GHz (with compatible probe heads such as MX0100A) Input Impedance: RC architecture DC Input Resistance: 25 k Ω single-ended, 50 k Ω differential Input Capacitance (MX0100A): 170 fF Spectral Noise Density (1:1 attenuation): 25 nV/ $\sqrt{\text{Hz}}$ referred to input Attenuation & Dynamic Range Attenuation Ratio: Auto-switchable 1:1 and 4:1 Input Dynamic Range at 1:1: 600 mVpp Input Dynamic Range at 4:1: 2.5 Vpp Offset Range: ± 16 V

Key Features Proprietary ASIC technology for signal conditioning Auto-switchable dual attenuation for flexible dynamic range selection Probe-specific S-parameter correction filter ensures flat frequency response RC input impedance minimizes loading effects on high-speed signals ESD-sensitive probe heads require static-safe handling Operating temperature range: -55°C to $+155^{\circ}\text{C}$ (MX0100A, MX0106A)

Typical Applications DDR5/LPDDR5 memory bus characterization MIPI interface signaling analysis High-speed digital interface validation

Compatibility & Integration Works with Keysight Infiniium UXR-Series, 90000X, 90000Z, V, and Q-Series oscilloscopes via AutoProbe II interface (N2852A adapter required for 1.85mm UXR connectors). Compatible probe heads include MX0100A (25 GHz), MX0106A (23 GHz solder-in), MX0105A (20 GHz SMA), N2839A (21 GHz browser), N5425B (18 GHz ZIF), and E2677B differential solder-in. System bandwidth is limited by the lesser of amplifier or probe head bandwidth.

MX0023A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0023A
Instrument Type	InfiniiMax RC probe amplifier
Bandwidth With Mx0100A	25 GHz
Input Architecture	RC input impedance profile
Dc Input Resistance Single Ended	25 kOhm
Dc Input Resistance Differential	50 kOhm
Input Capacitance With Mx0100A	170 fF
Attenuation Ratios	1 to 1 or 4 to 1 autoswitchable
Offset Range	plus or minus 16 V
Spectral Noise Density Attenuation 1 To	25 nV per square root Hz referred to input
Probe Amp Correction	probe amp specific S-parameter correction filter
Interface	AutoProbe II
Compatible Scope Families	Infiniium UXR 90000XVZQseries
Probe Head Temperature Range Mx0100A Mx0106A	-55 C to +155 C
Target Standards	DDR5 LPDDR5 MIPI high-speed mobile buses
Compatibility With Legacy Heads	most InfiniiMax I/II probe heads
New Probe Heads	MX0100A MX0106A and related RC heads
Midband Loading	extremely low midband loading RC architecture
Noise Performance Comparison	comparable to InfiniiMax II 1169B/1168B at 1:1
Asic Technology	proprietary ASIC auto-switchable attenuation
Frequency Response	flattened magnitude and phase using stored s-parameters
Dynamic Use Case	variable termination high/low impedance mobile buses
Form Factor	InfiniiMax RC probe amplifier with AutoProbe II
Bandwidth	With Mx0100A: 25 GHz

PARAMETER	VALUE
Attenuation	Ratios: 1 to 1 or 4 to 1 autoswitchable

MX0023A Specifications

PARAMETER	VALUE
Keysight MX0023A InfiniiMax 25 GHz RC Probe Amplifier	Overview
Applications	DDR5/LPDDR5 and MIPI high-speed debug, environmental probing with wide-temperature heads.
Key Features	RC architecture for low midband loading
Technical Specifications	Model: MX0023A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Autoswitchable	1 and 4:1 attenuation Per-amplifier S-parameter correction AutoProbe II compatibility with Infiniium high-performance scopes Technical Specifications
Model	MX0023A
Instrument Type	InfiniiMax RC probe amplifier
Bandwidth With Mx0100A	25 GHz
Input Architecture	RC input impedance profile
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Dc Input Resistance Differential	50 kOhm
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Offset Range	plus or minus 16 V
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Dynamic Use Case	variable termination high/low impedance mobile buses

PARAMETER

VALUE

Form Factor

InfiniiMax RC probe amplifier with AutoProbe II Notes Bandwidth, impedance, capacitance, attenuation, offset, noise density, and interface from Keysight MX0023A InfiniiMax 25 GHz RC Probe data sheet.

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 probing with wide-temperature heads.	
Key Features	
RC architecture for low midband loading	
Autoswitchable 1:1 and 4:1 attenuation	
Per-amplifier S-parameter correction	
AutoProbe II compatibility with Infiniium high-performance scopes	
Technical Specifications	
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PARAMETER	VALUE
Model	MX0023A
Instrument Type	InfiniiMax RC probe amplifier
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Dc Input Resistance Single Ended	25 kOhm
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Frequency Response	flattened magnitude and phase using stored s-parameters

PARAMETER	VALUE
Dynamic Use Case	variable termination high/low impedance mobile buses
Form Factor	InfiniiMax RC probe amplifier with AutoProbe II

Notes

Bandwidth, impedance, capacitance, attenuation, offset, noise density, and interface from Keysight MX0023A InfiniiMax 25 GHz RC Probe data sheet.

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