

KEYSIGHT TECHNOLOGIES (AGILENT HP)

CX1101A

The Keysight CX1101A is a single-channel current sensor designed for use with the CX3300 series Device Current Analyzers. It enables precise dynamic current measurements from 40 pA up to 1 A with a wide bandwidth of up to 100 MHz, making it ideal for characterizing low-power IoT devices, medical devices, and semiconductor components.

SPECIFICATIONS

General

Interfaces	Proprietary mainframe interface cable, proprietary sensor head interface
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Physical

Power Supply	Powered directly from the CX3300 mainframe
Operating Temperature	0 °C to 40 °C °C

Measurement Performance

Number of Channels	1
Maximum Frequency Bandwidth	100 MHz
Current Measurement Range	40 pA to 1 A
Measurement Ranges	2 µA, 20 µA, 200 µA, 2 mA, 20 mA, 200 mA, 1 A (full scale)

Compatibility

Compatible Mainframes	Keysight CX3322A, CX3324A
Compatible Sensor Heads	CX1201A, CX1202A, CX1203A, CX1206A

Electrical Characteristics

Maximum Common Mode Voltage	±40 V
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Connectivity

Input Connector	Dedicated sensor head interface connector
Output Interface	Dedicated mainframe interface cable

Performance

Rise Time	3.5 ns (typical)
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TECHNOLOGY

Device Current Analysis

APPLICATIONS

Dynamic current measurement of low-power devices

