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Data Sheet

August 12, 2026

LECROY

LeCroy DXC100A Passive Differential Probe Pair, 250MHz

Teledyne LeCroy DXC100A Passive Differential Probe Pair The DXC100A is a high-performance matched passive differential probe pair for Teledyne LeCroy DA1855A / DA1822 differential amplifiers. Two probes share a common compensation box so attenuation on both channels switches together between 10× and 100×. Probe coding feeds the amplifier effective-gain and PVG displays. Also usable on any 1 MΩ / 15–26 pF scope with 1.00 in (25.4 mm) BNC spacing. The DXC100A is a high-performance matched passive differential probe pair for Teledyne LeCroy DA1855A / DA1822 differential amplifiers. Two probes share a common compensation box so attenuation on both channels switches together between 10× and 100×. Probe coding feeds the amplifier effective-gain and PVG displays. Also usable on any 1 MΩ / 15–26 pF scope with 1.00 in (25.4 mm) BNC spacing.



MODEL

Lecroy DXC100A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DXC100A

LISTING

<https://aumictechlabs.com/products/dxc100a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The LeCroy DXC100A is a passive differential probe pair delivering 250 MHz bandwidth for precision signal acquisition across a wide range of measurement scenarios. Selectable 10x and 100x attenuation factors adapt to different signal levels, while matched probe construction

ensures accurate differential measurements. The probe pair integrates with Teledyne LeCroy DA1800 series differential amplifiers - including DA1855A and DA1822 - where automatic attenuation factor incorporation streamlines oscilloscope display and measurement workflows. When paired with DA1855A, system bandwidth reaches 100 MHz with 3.5 ns rise time; DA1822 pairing yields 10 MHz bandwidth and 35 ns rise time. The DXC100A also operates standalone with any oscilloscope or plug-in unit offering $1\text{ M}\Omega \pm 1\%$ input impedance and 15–26 pF compensation range across 1-inch connector spacing.

Technical Specifications

Probe Bandwidth:	250 MHz (-3 dB)
System Bandwidth (DA1855A):	100 MHz (-3 dB)
System Bandwidth (DA1822):	10 MHz (-3 dB)
System Rise Time (DA1855A):	3.5 ns
System Rise Time (DA1822):	35 ns
Attenuation Factor:	Selectable 10x or 100x
Input Resistance:	$1\text{ M}\Omega \pm 1\%$
Input Capacitance:	$10.5\text{ pF} \pm 0.5\text{ pF}$
Compensation Range:	15 to 26 pF
Maximum Input Voltage (non-destructive):	500 VDC + peak AC
Cable Length:	1.2 m

Key Features

- Matched passive differential probe pair for common-mode rejection optimization
- Shared compensation box enables simultaneous attenuation switching and transient response tuning
- Selectable attenuation accommodates diverse signal amplitudes without reranging
- Compatible three-probe ground connection methods minimize ground loop currents at frequencies $\leq 1\text{ MHz}$
- 1% input resistance specification supports CMRR performance when paired with differential amplifiers

Typical Applications

- High-frequency differential signal measurement in analog and digital circuits
- Power electronics and switching transient analysis
- Common-mode rejection verification in instrumentation systems

Compatibility & Integration

Designed for Teledyne LeCroy DA1800 series differential amplifiers. Operates with any oscilloscope or plug-in featuring $1\text{ M}\Omega/15\text{--}26\text{ pF}$ input impedance and 1-inch connector spacing. Operating temperature range: 0° to 50° C .

Features & description

From manufacturer datasheet

Features

• Attenuation factor: 10 or 100 (simultaneous on both probes) • Bandwidth (-3 dB), probe: 250 MHz • System bandwidth (-3 dB) with DA1855: 100 MHz • System bandwidth (-3 dB) with DA1822: 10 MHz • System rise time with DA1855: 3.5 ns • System rise time with DA1822: 35 ns • Input resistance: $1\text{ M}\Omega \pm 1\%$ • Input capacitance: $10.5\text{ pF} \pm 0.5\text{ pF}$ • Compensation range: 15 pF to 26 pF • Maximum non-destructive input voltage: 500 VDC + peak AC • Cable length: 1.2 m • Host connector spacing: 1.00 in (25.4 mm) • Host input impedance class: $1\text{ M}\Omega / 15\text{--}26\text{ pF}$ • Probe coding: automatic attenuation into DA1855A effective gain / PVG • Calibration note: small probe mismatch can degrade CMRR; periodic CMRR check recommended

Applications

• High-CMRR differential measurements with DA1855A • Matching transient response via common compensation box • Floating / differential probing on $1\text{ M}\Omega$ oscilloscopes or plug-ins • Optimization of system Common Mode Rejection Ratio (CMRR)

DXC100A Characteristics / Specifications

PARAMETER	VALUE
Model	DXC100A
Manufacturer	Teledyne LeCroy
Instrument Type	Passive Differential Probe Pair
Alias	DXC100A; LeCroy DXC100A
Attenuation	10× or 100× selectable
Rise time with DA18	3.5 ns
Input resistance	1 MΩ ±1%
Input capacitance	10.5 pF ±0.5 pF
Compensation range	15 pF to 26 pF
Max input voltage	500 VDC + peak AC
Cable length	1.2 m
Connector spacing	25.4 mm (1.00 in) Notes Specs from Teledyne LeCroy DXC100A operator documentation and authorized reseller specification tables. Confirm tip accessories and DA1855A pairing on the unit.
Attenuation factor	10 or 100 (simultaneous on both probes)
Bandwidth (-3 dB), probe	250 MHz
System bandwidth (-3 dB) with DA1855	100 MHz
System bandwidth (-3 dB) with DA1822	10 MHz
System rise time with DA1855	3.5 ns
System rise time with DA1822	35 ns
Maximum non-destructive input voltage	500 VDC + peak AC
Host connector spacing	1.00 in (25.4 mm)
Host input impedance class	1 MΩ / 15–26 pF
Probe coding	automatic attenuation into DA1855A effective gain / PVG
Calibration note	small probe mismatch can degrade CMRR; periodic CMRR check recommended

PARAMETER	VALUE
Bandwidth	(-3 dB), probe: 250 MHz - System bandwidth (-3 dB) with DA1855: 100 MHz - System bandwidth (-3 dB) with DA1822: 10 MHz - System rise time with DA1855: 3.5 ns - System rise time with DA1822: 35 ns - Input resistance: 1 M Ω $\pm$ 1%
Rise Time	with DA1855: 3.5 ns - System rise time with DA1822: 35 ns - Input resistance: 1 M Ω $\pm$ 1%

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.

performance matched passive differential probe pair for Teledyne LeCroy DA1855A / DA1822 differential amplifiers. Two probes share a common compensation box so attenuation on both channels switches together between 10× and 100×. Probe coding feeds the amplifier effective-gain and PVG displays. Also usable on any 1 MΩ / 15–26 pF scope with 1.00 in (25.4 mm) BNC spacing.

Applications

- High-CMRR differential measurements with DA1855A
- Matching transient response via common compensation box
- Floating / differential probing on 1 MΩ oscilloscopes or plug-ins
- Optimization of system Common Mode Rejection Ratio (CMRR)

Key Features

- Attenuation factor: 10 or 100 (simultaneous on both probes)
- Bandwidth (-3 dB), probe: 250 MHz
- System bandwidth (-3 dB) with DA1855: 100 MHz
- System bandwidth (-3 dB) with DA1822: 10 MHz
- System rise time with DA1855: 3.5 ns
- System rise time with DA1822: 35 ns
- Input resistance: 1 MΩ ±1%
- Input capacitance: 10.5 pF ±0.5 pF
- Compensation range: 15 pF to 26 pF
- Maximum non-destructive input voltage: 500 VDC + peak AC
- Cable length: 1.2 m
- Host connector spacing: 1.00 in (25.4 mm)
- Host input impedance class: 1 MΩ / 15–26 pF
- Probe coding: automatic attenuation into DA1855A effective gain / PVG
- Calibration note: small probe mismatch can degrade CMRR; periodic CMRR check recommended

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	DXC100A
Manufacturer	Teledyne LeCroy
Instrument Type	Passive Differential Probe Pair
Alias	DXC100A; LeCroy DXC100A

Attenuation: 10× or 100× selectable
Bandwidth probe (-3 dB): 250 MHz
Bandwidth with DA1855 (-3 dB): 100 MHz
Bandwidth with DA1822 (-3 dB): 10 MHz

Specifications

PARAMETER	VALUE
Rise time with DA1855	3.5 ns
Rise time with DA1822	35 ns
Input resistance	1 MΩ ±1%

PARAMETER	VALUE
Input capacitance	10.5 pF ±0.5 pF
Compensation range	15 to 26 pF
Max input voltage	500 VDC + peak AC
Cable length	1.2 m
Connector spacing	25.4 mm (1.00 in)

Notes
Specs from Teledyne LeCroy DXC100A operator documentation and authorized reseller specification tables.
Confirm tip accessories and DA1855A pairing on the unit.

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.