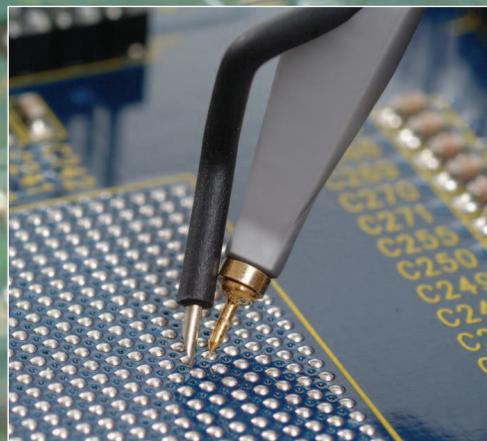
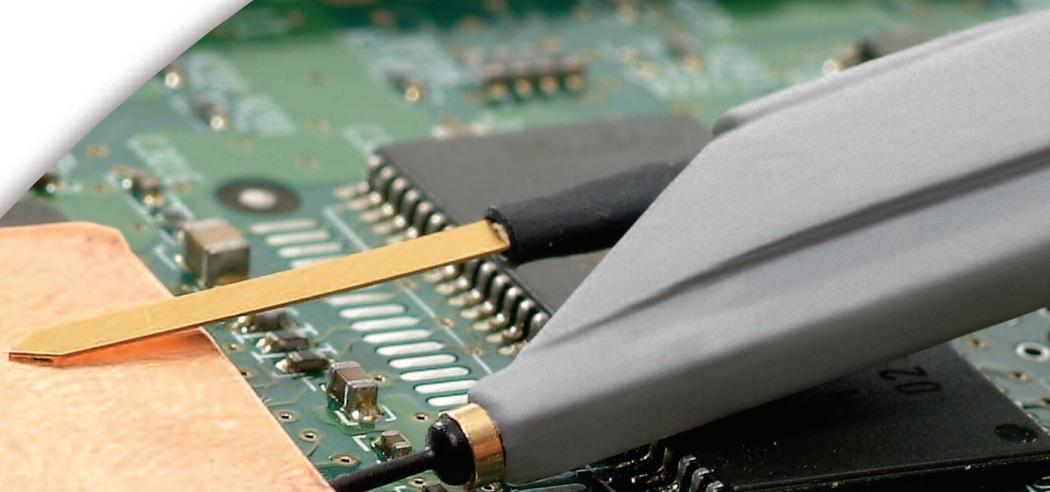


LeCroy

ZS SERIES HIGH IMPEDANCE ACTIVE PROBES



**1.5 GHz and
1 GHz Probes**

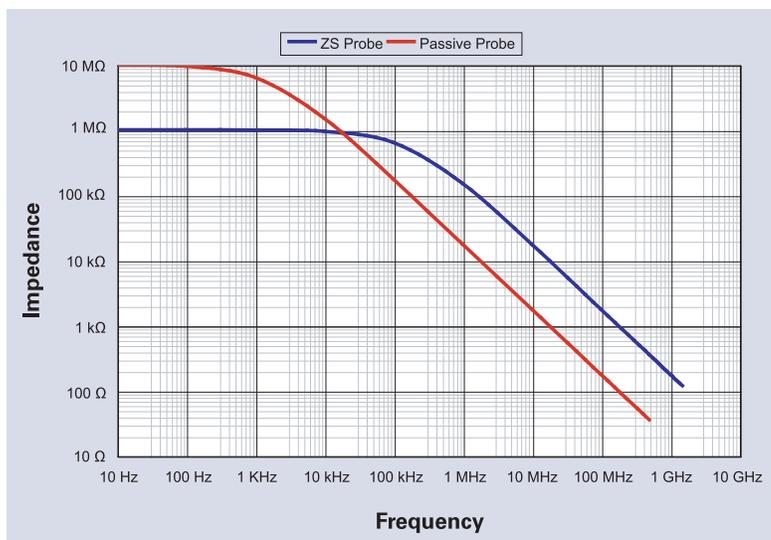


ZS Series High Impedance Active Probes

The ZS Series probes provide high impedance and an extensive set of probe tips and ground accessories to handle a wide range of probing scenarios. The high 1 M Ω input resistance and low 0.9 pF input capacitance mean this probe is ideal for all frequencies. The ZS Series probes provide full system bandwidth for all LeCroy oscilloscopes having bandwidths of 1 GHz and lower.*

High Impedance Reduces Circuit Loading Across Full Oscilloscope Bandwidth

Engineers must commonly probe high frequency signals with high signal fidelity. Typical passive probes with high input R and C provide good response at lower frequencies, but inappropriately load the circuit, and distort signals, at higher frequencies. The ZS Series features both high input R (1 M Ω) and low input C (0.9 pF) to reduce circuit loading across the entire probe/oscilloscope bandwidth. With low circuit loading, and a form factor that allows probing in confined areas, the ZS Series becomes the everyday probe for all different types of signals and connection points. The ZS1000 is ideal for 200–600 MHz oscilloscopes. The ZS1500 is ideal for 1 GHz oscilloscopes.



Passive probes are great for low frequency measurements; however, the input capacitance reduces impedance above 1 kHz. The 1 M Ω input resistance and 0.9 pF capacitance of the ZS probe provide high impedance across the entire probe bandwidth making it the ideal tool for all your probing needs.

* ZS Series probes are compatible with all LeCroy X-Stream oscilloscopes with version 5.0.0.2 software or greater.



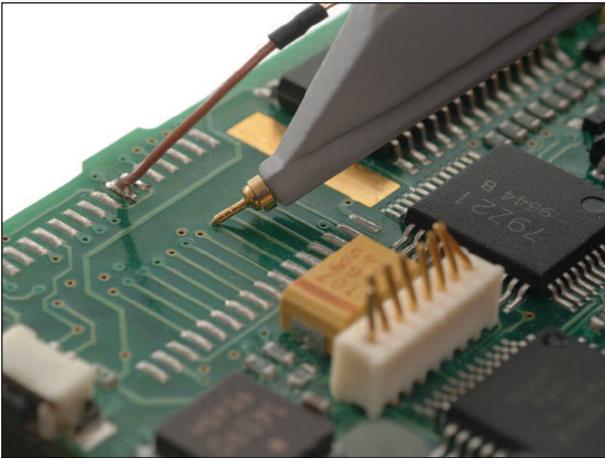
A Variety of Probe Tips for Varied Tasks

Engineers often need to probe a variety of different test points in confined spaces. The extensive range of standard and optional tip accessories for the ZS Series of probes ensures that this probe can meet any difficult probing challenge. Various flexible leads and clips, such as right-angle leads, Y-adapters, and pico hooks, are also available for probing test points that are spaced farther apart.

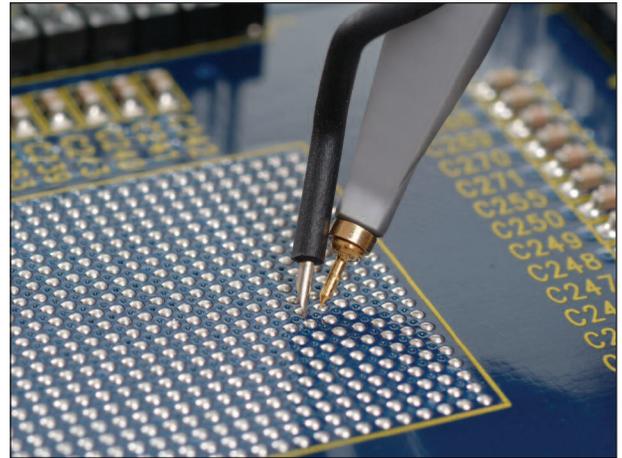
Innovative Grounding Solutions Provide the Highest Signal Fidelity and Easiest Connections

Making a good ground connection is just as important as accessing the right test point. Keeping the ground loop short is critical to eliminating the effect of high inductance on the signal. The ZS Series of probes provides several grounding capabilities to offer the highest signal fidelity by shortening the ground loop and eliminating the effect of that loop on the signal. The standard Offset ground lead is a “twisted-Z” shape for probing signal and ground points that are extremely close together. The standard ground blade and copper pad provide the shortest ground loop possible, and provide a pulse response that cannot be achieved with traditional long ground leads. A variety of other ground connections are available for nearly any type of probing requirement.

Extensive Set of Probe Tips and Ground Leads for a Wide Range of Probing Scenarios



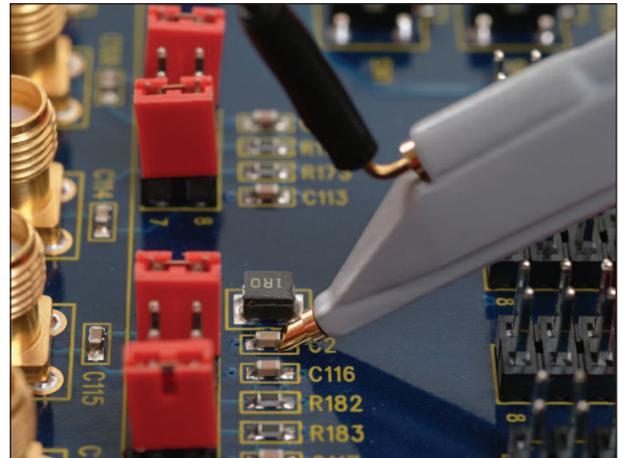
Use the Solder-In Ground with Straight Tip for general purpose browsing.



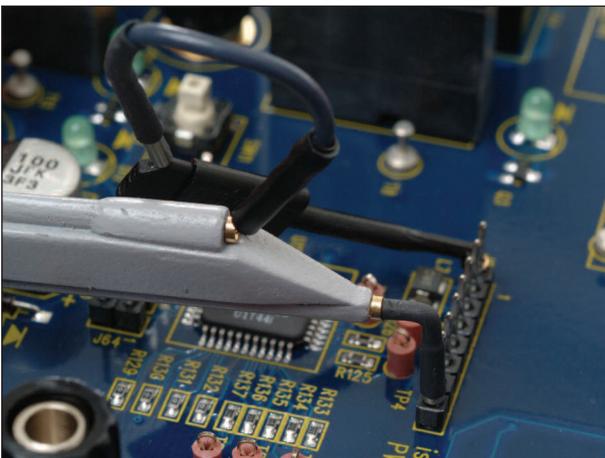
The Straight Tip and Offset Ground Lead can be used together for probing signal and ground points extremely close together.



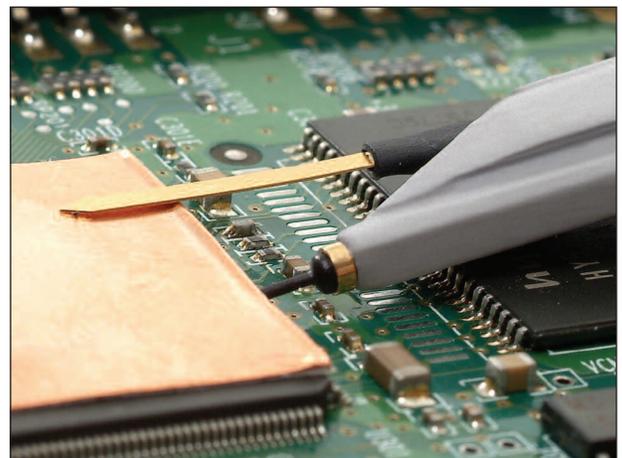
Hard-to-reach spaces can be probed with the Bent Sharp Tip and can be used with a range of ground leads like the flexible Short Right-angle Lead shown here.



Probe directly on surface mount components, like resistors or capacitors, with the Discrete SMD Tip. Use this tip with any of the ground leads, like the flexible Long Right-angle Lead shown here.



Use the Right-angle Connector and the Sprung Hook to probe square pins spaced far apart from each other.



The Ground Blade and Copper Pad provide the shortest ground loop for excellent signal fidelity when probing an IC. Use them with the insulated IC Lead Tip to prevent shorting between test points.

Specifications and Ordering Information

Specifications	ZS1000	ZS1500
Electrical Characteristics		
Bandwidth (probe only)	1 GHz	1.5 GHz
Bandwidth (system)	600 MHz at probe tip with 600 MHz oscilloscope	1 GHz at probe tip with 1 GHz oscilloscope
Input Capacitance	0.9 pF	0.9 pF
DC Input Resistance	1 M Ω	1 M Ω
Probe Offset Range	NA	± 12 V
Attenuation	$\div 10$	$\div 10$
Input Dynamic Range	± 8 V	± 8 V
Non-Destruct Voltage	20 V	20 V
General Characteristics		
Cable Length	1.3 m	1.3 m
Included with Standard Configuration		
Instruction Manual, English		
Color Coding Clips (set of 4 colors)		
Certificate of Calibration		
1-Year Warranty		
Straight Probe Tip (PK-ZS-001)	4	4
Offset Ground (PK-ZS-002)	2	2
Short Lead (PK-ZS-003)	1	1
Long Lead (PK-ZS-004)	1	1
Y Lead Adapter (PK-ZS-005)	1	1
Right Angle Connector (PK-ZS-006)	1	1
Sprung Hook Red (PK-ZS-007R)	1	1
Sprung Hook Black (PK-ZS-007B)	1	1
Ground Blade (PK-ZS-008)	1	1
Copper Pad (PK-ZS-009)	2	2
Color Coding Rings (PK-ZS-010)	4 (sets)	4 (sets)

Ordering Information

Product Description

Product Description	Product Code
Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe	ZS1500-QUADPAK
Set of 4 ZS1000, 1 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe	ZS1000-QUADPAK
1.5 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe	ZS1500
1 GHz, 0.9 pF, 1 M Ω High Impedance Active Probe	ZS1000

Replacement Accessories

Replacement Accessory Kit for ZS Series Probes	PK-ZS
Straight Probe Tip	PK-ZS-001
Offset Ground	PK-ZS-002
Short Lead	PK-ZS-003
Long Lead	PK-ZS-004
Y Lead Adapter	PK-ZS-005
Right-Angle Connector	PK-ZS-006
Sprung Hook – Red	PK-ZS-007R
Sprung Hook – Black	PK-ZS-007B
Ground Blade	PK-ZS-008
Copper Pad	PK-ZS-009
Color Coding Rings	PK-ZS-010

Product Description

Available Accessories

Available Accessories	Product Code
IC Lead Tip	PACC-PT003
Discrete SMD Tip	PACC-PT004
Bent Sharp Tip	PACC-PT005
Solder-In Ground	PACC-CD007
Bendable Pogo Ground	PACC-CD008
Ground Spring Hook	PACC-LD001
Square Pin Ground Spring	PACC-LD002
Short Right-angle Lead	PACC-LD003
Long Right-angle Lead	PACC-LD004

Customer Service

LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years, and our probes are warranted for one year.

This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge