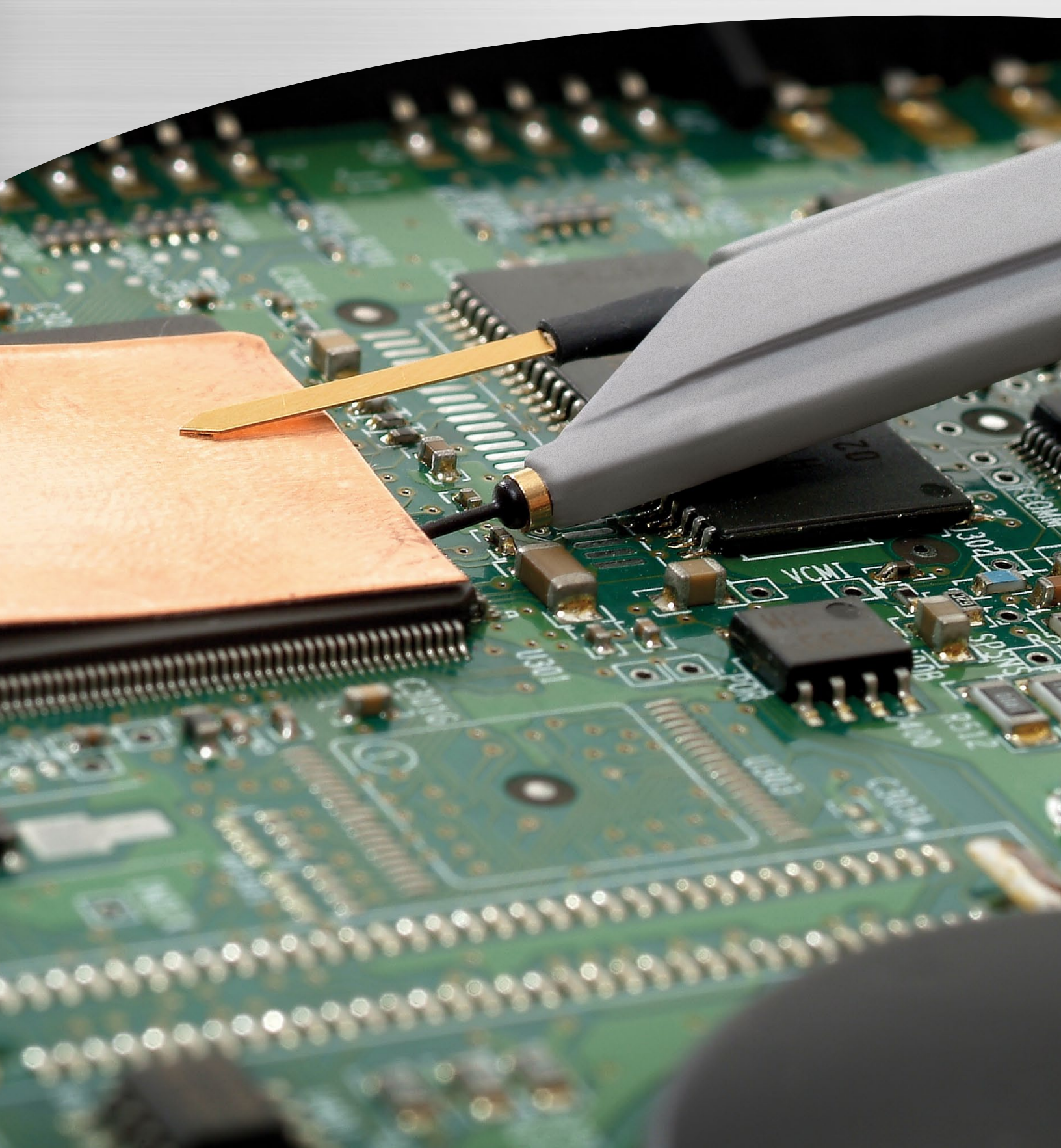
LeCroy

ZS Series High Impedance Active Probes

2.5 GHz, 1.5 GHz and 1 GHz Probes

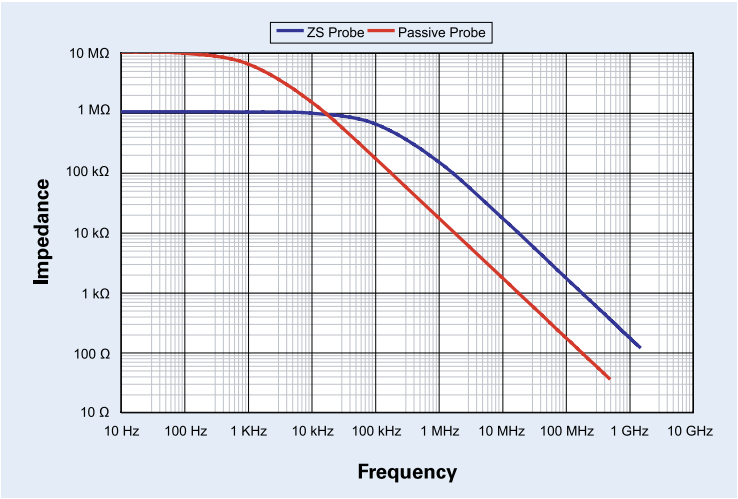


ZS SERIES HIGH IMPEDANCE ACTIVE PROBES

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 MΩ 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 2 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 MΩ 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 and the ZS2500 is ideal for 2 GHz oscilloscopes.



Passive probes are great for low frequency measurements; however, the input capacitance reduces impedance above 1 kHz. The 1 MΩ 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.

** ZS1000 and ZS1500 probes are compatible with all LeCroy X-Stream oscilloscopes with software version 5.0.0.2 or greater. ZS2500 probes require software version 6.5.0.5 or greater.*

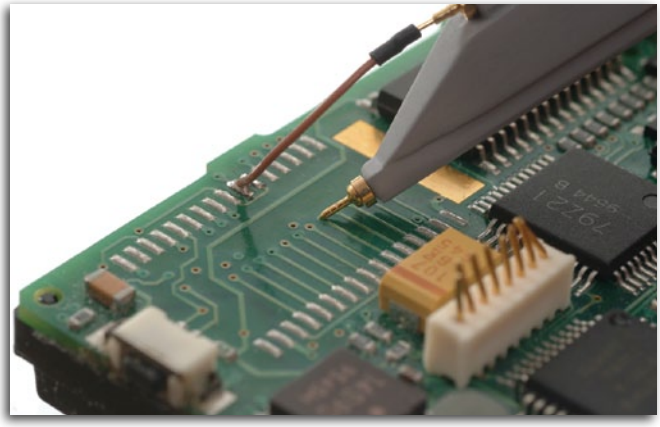
A Variety of Probe Tips for Varied Tasks

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.

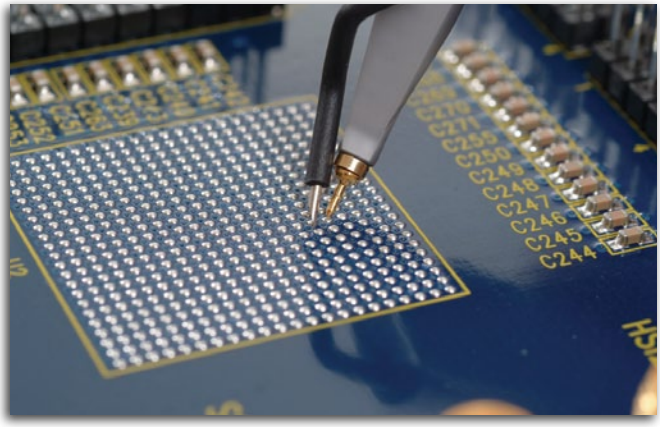
Innovative Grounding Solutions Provide the Highest Signal Fidelity and Easiest Connections

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 or 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 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

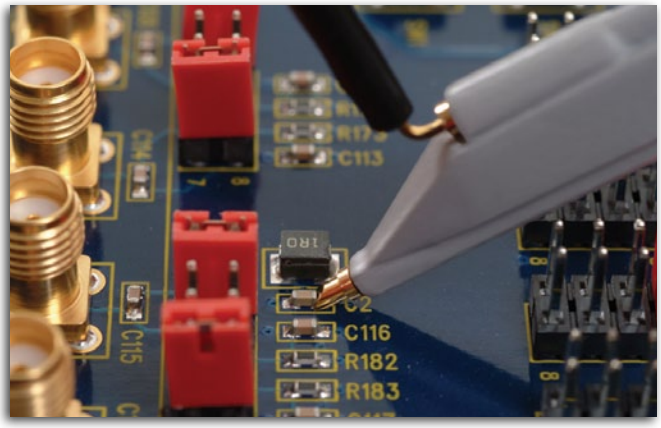


Use the Solder-In Ground with Straight Tip for general purpose browsing.

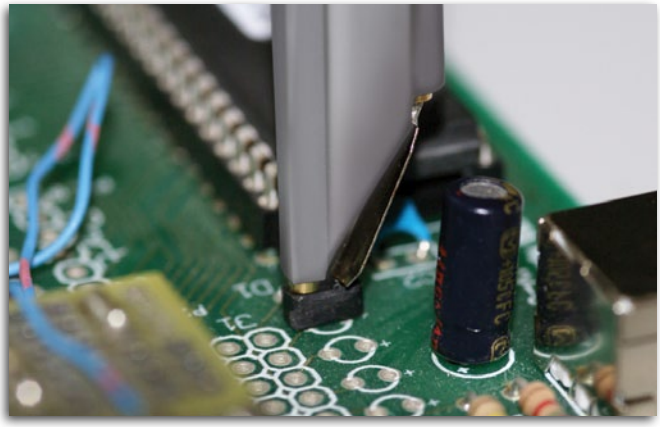


The Straight Tip and Offset Ground Lead can be used together for probing signal and ground points extremely close together.

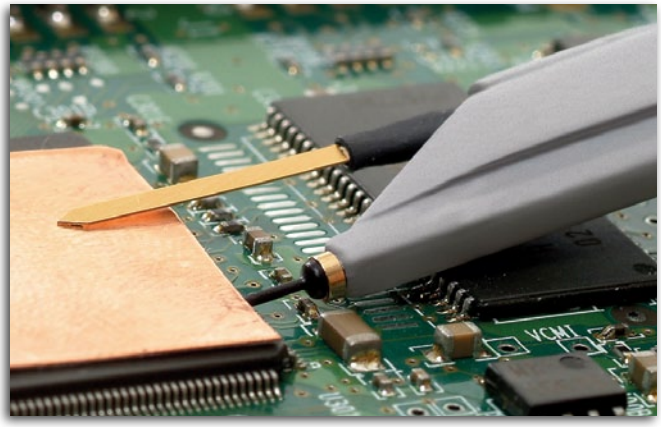
Hard-to-reach spaces can be be probed with the Bent Sharp Tip and can be used with a range of ground leads like the flexible Short Right-Angle Lead shown here.



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.



The 2.54mm probe adapter provides full BW probing and holds the probe in place.



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	ZS2500
Electrical Characteristics			
Bandwidth (Probe Only)	1 GHz	1.5 GHz	2.5 GHz
Bandwidth (System)	600 MHz at probe tip with 600 MHz oscilloscope	1 GHz at probe tip with 1 GHz oscilloscope	2 GHz at probe tip with 2 GHz oscilloscope
Input Capacitance	0.9 pF		
DC Input Resistance	1 MΩ		
Probe Offset Range	N/A	±12 V	
Attenuation	÷10		
Input Dynamic Range	±8 V		
Non-destruct Voltage	20 V		
General Characteristics			
Cable Length	1.3 m		

Ordering Information

Product Description	Product Code
Set of 4 ZS2500, 2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probes	ZS2500-QUADPAK
Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probes	ZS1500-QUADPAK
Set of 4 ZS1000, 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probes	ZS1000-QUADPAK
2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS2500
1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1000

Included with Standard Configuration

Instruction Manual, English	
Certificate of Calibration	
1-Year Warranty	
Straight Pin Lead – Short (Qty 1)	PK-ZS-003
Straight Pin Lead – Long (Qty 1)	PACC-LD004
Right Angle Pin Lead – Short (Qty 1)	PACC-LD003
Right Angle Pin Lead – Long (Qty 1)	PACC-LD004
Y Lead Adapter (Qty 1)	PK-ZS-005
Micro-Grabber Pair	PK-ZS-007R and PK-ZS-007B
Ground Blade – Wide	PK-ZS-011
Probe Tip – Standard (Qty 3)	PK-ZS-001
Right Angle Socket (Qty 1)	PK-ZS-006
Offset Ground – Z lead (Qty 1)	PK-ZS-002
Ground Blade – Narrow (Qty 1)	PK-ZS-008
Copper Tape (Qty 2)	PK-ZS-009
Pogo Tip (Qty 1)	PK-ZS-013
2.54mm Square Pin Adapter	PK-ZS-012
Channel ID Clips (Set of 4 Colors)	PK-ZS-010
Freehand Probe Holder	PACC-MS005
Bent Tip (Qty 1)	PACC-PT005
IC Tip (Qty 1)	PACC-PT003
Pogo Ground Lead (Qty 1)	PACC-CD008
Pogo Leaf Ground Assembly (Qty 2)	PACC-CD009

Available Accessories

Product Description	Product Code
Discrete SMD Tip	PACC-PT004
Solder-In Ground	PACC-CD007
Ground Spring Hook	PACC-LD001
Square Pin Ground Spring	PACC-LD002

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

LeCroy
1-800-5-LeCroy
www.lecroy.com

Local sales offices are located throughout the world.
Visit our website to find the most convenient location.

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