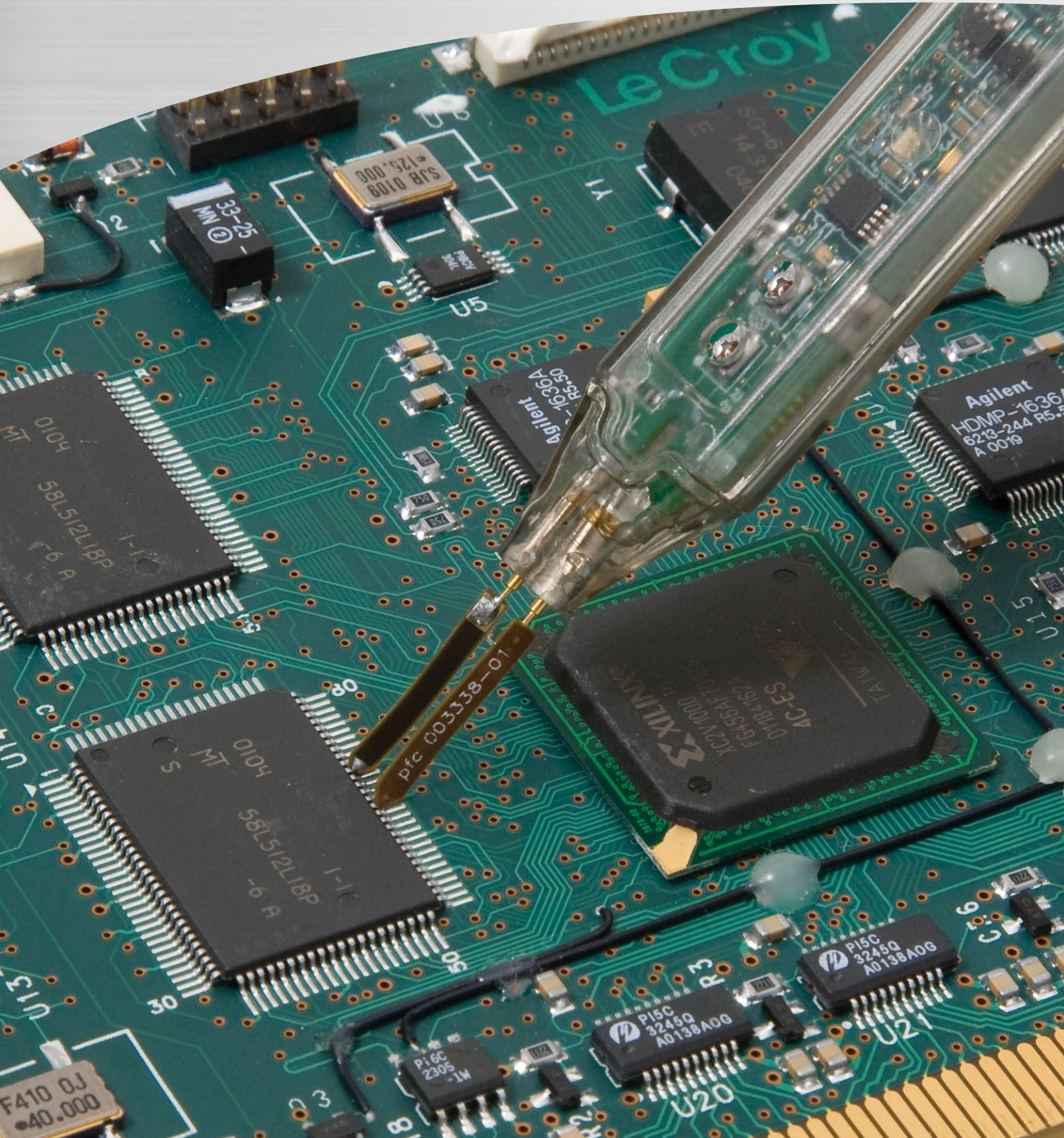




ZD Series Active Differential Probes

1.5 GHz, 1 GHz, and 500 MHz



2D SERIES ACTIVE DIFFERENTIAL PROBES

Fully Integrated

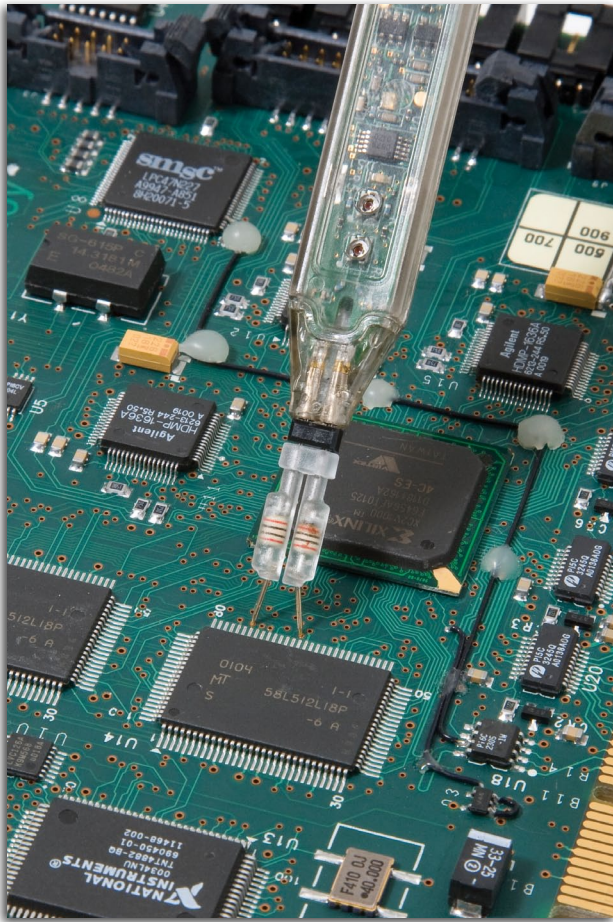
Wide Dynamic Range

Wide Applications

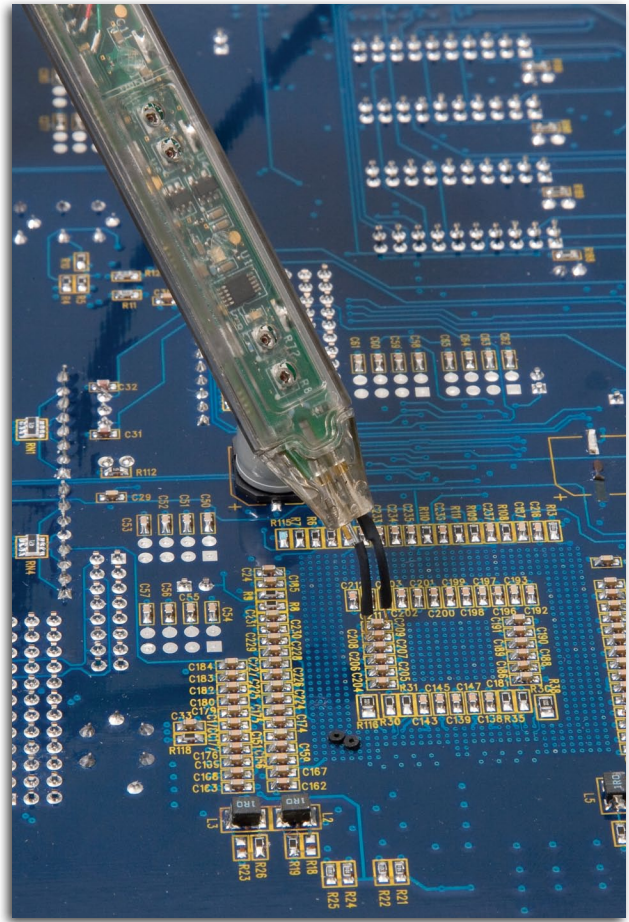
This image displays a variety of electronic components and tools arranged on a white background. At the top center is a blue plastic two-compartment carrying case with a handle. To its left is a long black cable with a LeCroy probe tip at one end. To its right is a black rectangular module or power supply unit. Below these items are several smaller components: multiple short cables with different connectors (BNC, SMA, etc.), individual pins and jumpers, a yellow printed circuit board (PCB) with gold-colored components, two small blue and yellow probes, and a black three-legged tripod stand with a mounting bracket at the top.

Probing with long leads or accessories is sometimes necessary to reach the test points, but it comes at the expense of reduced bandwidth, increased capacitance, and added noise. The ZD accessories are engineered to provide the best signal fidelity without ringing or distortions commonly introduced with tip accessories.

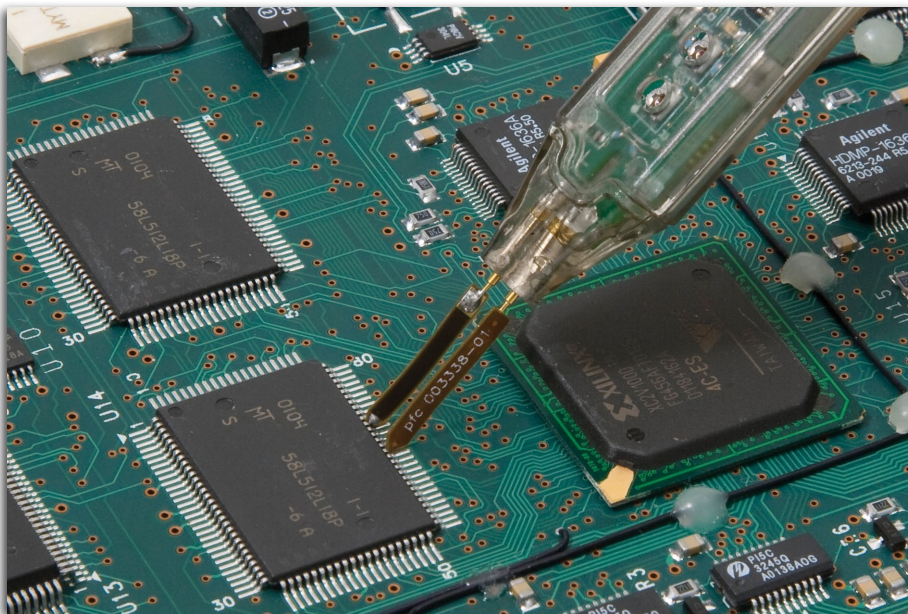
ZD SERIES ACTIVE DIFFERENTIAL PROBES



The Swivel Tip adapter can be adjusted to probe test points ranging from 0 to .300" apart with Z-Axis compliance.



The short spring loaded ground leads can be used as either a ground accessory or an extension of the probe inputs.



The IC leads with a compensation resistor provide excellent signal fidelity when probing pins of an IC. One side of each blade is insulated to prevent shorting the signal to the adjacent pin.

SPECIFICATIONS AND ORDERING INFORMATION

Specifications

ZD1500

ZD1000

ZD500

Electrical Characteristics

Bandwidth (Warranted)	1500 MHz	1000 MHz	500 MHz
Bandwidth (Typical)	1700 MHz	1200 MHz	650 MHz
Risetime 10–90% (Typical)	270 ps	375 ps	650 ps
Risetime 20–80% (Typical)	200 ps	280 ps	500 ps
LF Attenuation Accuracy (Warranted)	2%		
Zero Offset (Typical) (within 15 minutes after autozero)	5 mV		
System Noise (Typical)	1.75 mV _{rms}	1.75 mV _{rms}	1.3 mV _{rms}
Probe Noise Density (Typical)	38 nV/rt (Hz)		
Input Differential Range (Nominal)	±8 V (16 V _{p-p})		
Differential Offset Range (Nominal)	±18 V		
Offset Gain Accuracy (Typical)	2%		
Common Mode Range (Nominal)	±10 V		
Maximum Non-destruct Voltage (Nominal)	30 V		
CMRR (Typical)	60 dB 50/60 Hz 30 dB 20 MHz 25 dB @ 1500 MHz	60 dB 50/60 Hz 30 dB 20 MHz 25 dB @ 1000 MHz	60 dB 50/60 Hz 30 dB 20 MHz 25 dB 500 MHz
DC Input Resistance (Nominal)	50 kΩ (Common Mode) 120 kΩ (Differential Mode)		
Differential Input Capacitance (Typical)	< 1.0 pF		

Ordering Information

Product Description	Product Code	Product Description	Product Code
500 MHz, 1.0 pF, 1 MΩ Active Differential Probe	ZD500	Right Angle Connector Long, Qty 2	PACC-LD004
1 GHz, 1.0 pF, 1 MΩ Active Differential Probe	ZD1000	Micrograbber, Qty 2	PK006-4
1.5 GHz, 1.0 pF, 1 MΩ Active Differential Probe	ZD1500	Minigrabber, Qty 2	PACC-CL001
		Short Spring Loaded Bendable Ground, Qty 2	PACC-CD008
		Probe Calibration Fixture, Qty 1	PCF200
		ZD Replacement Kit	PK111
		Hands Free Probe Holder, Qty1	PACC-MS001
Standard Accessories			
Y Lead Adapter, Qty 1	PACC-ZD001		
Solder-In Lead, Qty 2	PACC-ZD002		
Long Spring Loaded Bendable Ground, Qty 2	PACC-ZD003		
Tip Saver, Qty 2	PACC-ZD004		
Swivel Tip Adapter	PACC-ZD005		
Small IC Adapter, Qty 2	PACC-ZD006		
Micro Pogo Pin Tip, Qty 6	PACC-ZD009		
Right Angle Connector Short, Qty 2	PACC-LD003		
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			



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

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