



## WaveLink® High Bandwidth Differential Probes 25 GHz Bandwidth

***WaveLink D2505 – World’s Fastest Probe Now  
Available for World’s Fastest Real-Time Oscilloscope***

**Media contact:** Patrick Brightman - SGW (973) 263-5475  
**Editors’ Technical contact:** Ken Johnson – Product Marketing Manager ken.johnson@lecroy.com  
**Customer contact:** LeCroy Customer Care Center (800) 553-2769  
**Website:** [www.lecroy.com](http://www.lecroy.com)

### **LeCroy Introduces WaveLink® 25 GHz High Bandwidth Differential Solder-In Probe**

#### ***Superior Rise Times, AC Probe Loading and Probe Noise***

**Chestnut Ridge, NY, February 2, 2010** – LeCroy Corporation today announced the launch of the WaveLink 25 GHz high bandwidth differential solder-in probe, the fastest probe currently available. This probe expands the recently (August 2009) introduced 13-20 GHz WaveLink probe line and is well-matched to LeCroy’s WaveMaster 8 Zi oscilloscope product line, which includes bandwidths up to 30 GHz. Now, engineers who find it insufficient to use SMA cables to input signals directly into their oscilloscope can use a LeCroy WaveLink D2505 differential probe and a WaveMaster 825Zi oscilloscope to achieve 25 GHz of scope and probe bandwidth – an industry first.

LeCroy’s WaveLink high bandwidth differential solder-in probes provide superior rise time performance, and the new probe extends this performance to 17.5 ps for a 25 GHz probe used with a 25 GHz oscilloscope, the same as the oscilloscope-only rise time. In addition, baseline electrical noise in the probe product line has been dramatically lowered and is only 18nV/√Hz (3.1 mVrms) at 25 GHz, and only 14nV/√Hz (1.6 mVrms) at 13 GHz. In addition, the probes exhibit superior AC loading in the mid-band and high frequency range with only 350 Ω at 7 GHz, 575 Ω at 13 GHz, 325 Ω at 16 GHz, 160 Ω at 20 GHz, and 120 Ω at 25 GHz — nearly twice the loading provided by other probes at similar bandwidths. This combination of performance and bandwidth is essential for accurately characterizing next generation serial data signals, and comes closer in signal fidelity to cabled inputs than any other similar bandwidth oscilloscope probe. This is especially important when oscilloscope channels must be conserved for multiple differential signal measurements, such as with multi-lane protocols like PCI Express.

#### **Superior Probe Noise, Rise Time Performance, and Industry Leading AC Probe Loading**

The new 25 GHz high bandwidth WaveLink probes, like the 13-20 GHz WaveLink probes, are of a transmission line design with an attenuating tip followed by an amplifier output to a differential transmission line connecting to.

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the oscilloscope with a platform/cable assembly. This type of design was pioneered by LeCroy, provides superior performance at high bandwidth, and is now the standard type of design for probes of bandwidths >6 GHz. The minimum AC loading ( $Z_{min}$ ) of the new WaveLink probe at high frequency is far superior to competitive units at 13 to 20 GHz, and of course, there is no comparison at 25 GHz.

### **Solder-In Tip with Field Replaceable Resistors**

Engineers have long appreciated the LeCroy solder-in tip for the placement of the damping resistors as near to the circuit as possible, without long wire lengths (which affect probe performance) between the damping resistor and the circuit. Not only did this provide excellent signal fidelity, but it also relieved the engineer of the burden of precision measuring, cutting, and soldering of small pieces of wire to the end of the solder-in tip before use, as is required with competitive solder-in probes. Now, LeCroy has improved on this design by making the damping resistors on the solder-in tip field replaceable so that an engineer, faced with a damaged tip, can simply solder a new damping resistor to the tip and quickly resume work. Each solder-in probe comes standard with 10 spare damping resistors, and more can be ordered.

### **Further Information**

Engineers and technicians who would like to know more can contact LeCroy at 1-800-5LeCroy (1-800-553-2769) or visit the LeCroy web site ([www.lecroy.com](http://www.lecroy.com)).

### **About LeCroy**

LeCroy Corporation is a worldwide leader in serial data test solutions, creating advanced instruments that drive product innovation by quickly measuring, analyzing, and verifying complex electronic signals. The Company offers high-performance oscilloscopes, serial data analyzers, and global communications protocol test solutions used by design engineers in the computer and semiconductor, data storage device, automotive and industrial, and military and aerospace markets. LeCroy's 45-year heritage of technical innovation is the foundation for its recognized leadership in "WaveShape Analysis"—capturing, viewing, and measuring the high-speed signals that drive today's information and communications technologies. LeCroy is headquartered in Chestnut Ridge, New York. Company information is available at <http://www.lecroy.com>.

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## Pricing and Availability

Delivery is 6 weeks ARO.

<b>Part Number</b>	<b>Description</b>	<b>Price (USD)</b>
D2505	25 GHz Amplifier/Solder-in Tip Module	\$19,990
WL-2.92MM	2.92mm Platform/Cable Assembly	\$3,870
WL-PLINK-A	ProLink Platform/Cable Assembly	\$3,870
D2505-CCNIST	NIST Calibration for D2505. Includes test data.	\$125
DXX05-SI	Replacement Dxx05-SI 13-25 GHz Solder-In Lead with Qty. 10 Spare Resistors.	\$895
DXX05-SI-RESISTORS	Replacement SI Resistor Kit for Dxx05-SI Solder-In Tip	\$440