

**WaveLink® Medium Bandwidth** 



# **EXCEPTIONAL WAVEFORM FIDELITY**

### **Key Features**

- Choice of 8, 10, or 13 GHz bandwidth models
- 3.5 V<sub>pk-pk</sub> dynamic range
- ±4 V offset range
- Ideal for DDR3, DDR4, LPDDR3
- Deluxe soft carrying case
- Wide variety of tips and leads
  - Solder-In Lead
  - Positioner (Browser) Tip
  - SMA/SMP Lead
  - Square Pin Lead
- SMA/SMP lead set accessory does not require purchase of a different amplifier



The WaveLink Differential Probe Series is a medium (8-13 GHz) bandwidth active differential probe series with high input dynamic range, a large offset capability, and a wide variety of tips and leads available for different applications.

# General Purpose Probe with Range of Capabilities

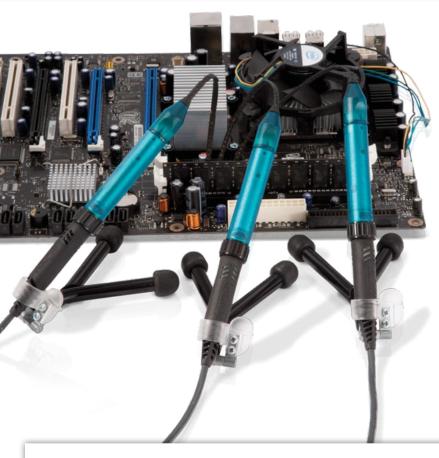
Teledyne LeCroy's WaveLink 8-13 GHz Differential Probes are a medium bandwidth, general purpose probing solution with high input dynamic range and offset range capability. These probes support solder-in, positioner (browser), square pin and SMA/SMP cabled tip/lead connections. The range of capabilities is ideal for a variety of high speed DDR signals where high dynamic range and large offset requirements are common.

# **Wide Variety of Tip and Leads**

The wide variety of tips offered with the Dxx30 provides confidence that the most challenging test points can be probed. The solder-in, positioner (browser) tip, square pin, and the SMA/SMP lead set provide great flexibility when probing, while maintaining signal integrity.
Furthermore, an assortment of hands-free probe holders eases the challenge of connecting multiple leads to a board. With four different tips and leads available the Dxx30 makes connections to test points very simple.

#### Modular SMA/SMP Lead Set

The SMA/SMP lead connects to the standard Dxx30 probe amplifier and does not require the purchase of an expensive, additional dedicated SMA/SMP probe. The SMA/SMP lead set provides a pair of leads for SMA cabled termination as well as a pair of leads for SMP cabled termination.



## **Great for DDR Probing**

Existing and emerging high speed DDR standards require measurements on a wide variety of differential and single-ended signals. These signals have widely varying signal swings and often large amounts of overshoot. Additionally, some of the signals have high amounts of offset. DDR3 and LPDDR3 can sometimes operate at speeds approaching 2 GT/s with very fast rise times, and DDR4 is faster yet.

The Dxx30 probe series provide bandwidths starting at 8 GHz and reaching as high as 13 GHz with high input dynamic range (3.5  $V_{pk-pk}$ ) combined with a large offset range capability (±4 V). This makes the Dxx30 probe series ideal for high-speed DDR applications where >6 GHz of bandwidth is required. For slower speed DDR3 and LPDDR3, the WaveLink D610 and D620 6 GHz differential probes are more suitable alternatives.

# **Deluxe Soft Carrying Case**

The Dxx30 probe series introduces a completely new deluxe soft carrying case which stores all components of the complete probe system in one convenient location. The case includes a custom foam insert to securely house the platform/cable assembly and the differential probe amplifier. Additionally, a removable protective storage tray has been designed to neatly arrange the complete selection of tips/accessories for ease of accessibility. The deluxe soft carrying case can easily fit in a standard-sized file drawer or shelf for storage. The new case is provided standard with the



# **VARIETY OF TIPS AND LEADS**



# WaveLink Differential Amplifier Small Tip Modules

The Dxx30 probe series provides superior electrical characteristics to provide the best signal fidelity.

- High DC impedance
- Low loading solder-in lead for minimum signal disturbance
- High sensitivity for probing low voltage signals

The Dxx30 probe series are superior to single-ended probes for measuring ground referenced signals. Placing the probe will not alter local ground variation, and the measured signal won't be distorted by this variation.

Best-in-class mechanical design for optimum utility:

- Small tip, high bandwidth differential probe
- Four interconnect configurations for flexibility
- Very small form factor for accessing tight spaces
  - Positioner tip with pogo pin contacts for optimum test point connection

Each of the interchangeable leads is a thin, highly flexible 145 mm (5.7") long lead connecting the tip and the Dxx30 probe tip module.

## **Four Different Tips for Interconnect Flexibility**



### A. Solder-In Lead (SI)

The Solder-In interconnect lead features the smallest physical tip size of any high bandwidth differential probe and the highest level of electrical performance. Two very small damping resistors are directly soldered into the connect points for the highest impedance and lowest tip inductance. The resistors have highly flexible leads allowing connection to input points with a wide range of input spacing.



## **B. Positioner Tip (PT)**

The PT positioner tips provides spring loaded leads to allow for easy probing. The adjustable wheel allows for precise probing, allowing a spread up to 0.14". The small form factor provides a convenient grip for hand probing, or use the wand or XYZ positioner for more precise placement.



#### C. Square Pin (SP)

Many applications, such as IC characterization boards, use standard 0.025" square pins for interconnect. The Square Pin interconnect lead directly mates with a pair of 0.025" (0.635 mm) square pins that are mounted on standard 0.100" (2.54 mm) centers.



#### D. SMA/SMP Lead Set

The Dxx30 SMA/SMP lead set provides a convenient alternative to direct cabling into the oscilloscope inputs, freeing up a second channel for other signal inputs, and eliminating the need to set up waveform math and match cable delays. A pair of SMA DC blocking adapters and SMA finger wrenches are provided with the lead set.



### **SMA/SMP Lead Set**

The SMA/SMP lead set provides an economical means to leverage the Dxx30 probe amplifier for SMA/SMP cabled connections without requiring the purchase of an expensive, additional dedicated SMA/SMP probe. This significantly reduces the up-front investment to add this additional connection lead, and provides an economical means to connect to SMA and SMP connectors on the device under test (DUT).

The SMA/SMP lead set provides a pair of DC blocking adapters which can be used to extend the common mode range of the SMA/SMP cabled input when using higher common mode voltages. Finger wrenches are also provided to assist in tightening the SMA connectors.

# Positioner Tip (Browser) Flexibility

The Dx30-PT positioner (browser) tip is used with the Dxx30 probe series. The positioner tip offers the most flexibility in a browser probe with an easy to use form factor. The small form factor makes probing small pitch ICs easy, with a tip spread of 0.14", adjustable with a thumb



wheel. The probe tips offer a field replaceable pogo pin/spring tip (with a flex of 0.6 mm) to allow robust contact with DUT contacts.

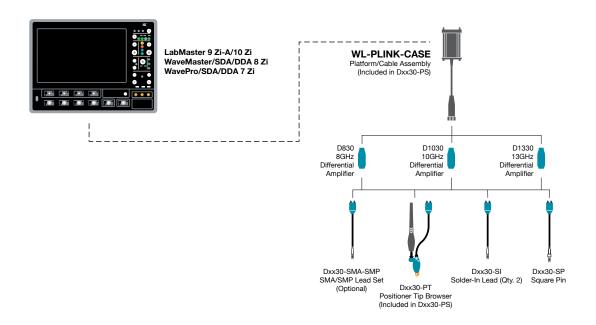
The wide variety of short, long, swivel, and right angle interconnect parts can be connected to the positioner tip to allow for a variety of different probing positions. Using these interconnects the positioner tip is easily attached to a wide variety of probe positioners for precise circuit placement. When used with the XYZ positioner, the positioner has freedom to move up and down along the Z-Axis to increase or release pressure on the probe points. Additionally, a browsing wand can be attached for hand-held browsing to facilitate quick acquisition of signals for debug and analysis.

# Optimized Probe + Oscilloscope Performance

The WaveLink Series of Medium Bandwidth Differential Probes utilize digital filtering to optimize the system frequency response. The design of the WaveLink probe amplifier is such that there is a very wide bandwidth response that exceeds the oscilloscope bandwidth. At time of initial shipment, each probe undergoes a rigorous calibration and performance verification process that results in a stored response file on-board the probe. When the probe is connected to a Teledyne LeCroy oscilloscope, the probe and oscilloscope responses are optimized to each other to provide a probe + oscilloscope response identical to that of the raw oscilloscope channel. Teledyne LeCroy has provided this capability since the introduction of the first WaveLink probes in 2003. All that is left for the operator is to de-embed the probe loading from the circuit using Teledyne LeCroy's Virtual Probe software option, if desired.

# **COMPATIBILITY AND ACCESSORIES**

## **Compatibility Chart**



# **Accessories and Replacement Parts**

1 each   1 each   2	Standard Accessories	WL-PLINK-CASE	Dxx30	Dxx30-PS	Dxx30-PT-KIT	Replacement Part
1 each	Amplifier System		1 each	1 each		D830, D1030, or D1330
ad Set no below with**)  2 each 2 each Dxx30-SI  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 2 sets of 5 Dxx05-SI-RESISTORS  ping Resistors for SI Tip 2 sets of 5 Dxx05-SI-RESISTORS  property Six 1 set Dxx00-PT-TAPE  d 1 set 1 set Dxx00-PT-TAPE  d 1 seach 1 seach PXC0-L0005  for Sheet & Quick Start Guide 1 seach 1 seach PXC0-G4  property Six 1 sets PxC00-FT-TIPS  ping Browser 1 seach 1 seach 1 seach Dxx30-PT-TIPS  ping Probe Guides 1 seach 1 seach Dxx00-PT-TIPS  ping Probe Guides 1 seach 1 seach Dxx00-PT-GUIDES  ping for XYZ Positioner 1 seach 1 seach Dxx0-PT-GUIDES  ping for YYZ Positioner 1 seach 1 seach Dxx0-PT-WAPD  ping for PYT Tip 1 seach 1 seach Dxx0-PT-WAND  ping for PYT Tip 1 seach Dxx0-PT-WAND  ping for PYT Tip 1 seach Dxx0-PT-WAND  ping for	(includes items below with*)					
ns below with**)         Z each         Z each         Dxx0-SI-RESISTORS           ping Resistors for SI Tip         2 sets of 5         2 xets of 5         Dxx0-SI-RESISTORS           ping Resistors for SI Tip         2 sets of 5         2 xeach         PK600ST3           e Tape         1 set         1 set         Dxx0-PTTAPE           d         1 leach         1 each         PK00-4           Lead Set         1 each         1 each         PK00-4           Lead Set         1 each         1 each         W.MBW-0M-E           4 flo Sheet & Quick Start Guide         1 each         1 each         921558-00           Ith Accessories         1 each         1 each         921558-00           Ins below with†)         RK-Dxx30-PT-KIT         RK-Dxx30-PT-KIT           Ipprover         1 set         1 set         Dxx0-PT-TIPS           Ipprover         1 set         1 set         Dxx0-PT-TIPS           Ipprover         1 set         1 set         Dxx0-PT-TIPS           Ipprover         1 each         1 each         Dxx0-PT-TIPS           Ipprover         1 each         1 each         Dxx0-PT-TIPS           Ipprover         1 each         1 each         Dxx0-PT-TIPS           I	*Amplifier		1 each	1 each		
Inling Clip for SI Leads	*Solder-In Lead Set (includes items below with**)		2 each	2 each		Dxx30-SI
Tape	**Spare Damping Resistors for SI Tip	-	2 sets of 5	2 sets of 5		Dxx05-SI-RESISTORS
1 each	**Tip Retaining Clip for SI Leads	-	2 each	2 each		PK600ST-3
	**Adhesive Tape		1 set	1 set		Dxx0-PT-TAPE
Pack   1	*Ground Lead	-	1 each	1 each		PACC-LD005
Manual         1 each         1 each         WL-MBW-OM-E           nfo Sheet & Quick Start Guide         1 each         1 each         921558-00           tith Accessories         1 each         1 each         RK-Dxx30-PT-KIT           ins below with†)         1 each         1 each         Dxx30-PT           ip Browser         1 each         1 each         Dxx30-PT           ip Probe Guides         1 each         1 each         Dxx0-PT-TIPS           ip Probe Guides         1 each         1 each         Dxx0-PT-VZ-POSITIONER           ip Probe Guides         1 each         1 each         Dxx0-PT-VZ-POSITIONER           ip For XYZ Positioner         1 each         1 each         Dxx0-PT-VAP-DOSITIONER           ip For YYZ Positioner         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each         1 each         Dxx0-PT-WAND           eces for PT Tip         1 each<	*Ground Clip	-	1 each	1 each		PK006-4
To Sheet & Quick Start Guide	*Square Pin Lead Set		1 each	1 each		Dxx30-SP
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Tip Probe Guides  1 each 1 eac	†Replacement Pogo-pins for Dxx30-PT			1 set	1 set	Dxx0-PT-TIPS
ner	†Positioner Tip Probe Guides			1 each	1 each	
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ficate See Ordering Information  Accessories	SMA/SMP Lead Set					
Accessories						
	Calibration Certificate  Recommended Accessories  Deskew Test Fixture					See Ordering Information

Deskew Test Fixture TF-DSQ EZ PROBE

Cascade Microtech EZ-Probe Positioner

# **SPECIFICATIONS**

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Rise Time (10 – 90%)  Dx30 -SI Dx30 -SIA -SIAP, and Dx30 -SI Dx30 -SIA -SIAP, and Dx30 -SI Tip  Open to typically System rise time measured with all SCHz concloscope by the SCHz concloscope with all S							
Display State   Display							
Box30-PT Tips 50 pt (typical)							
Space   Spac	Rise Time (10-90%)						
System rise time measured with a 3 GHz concilioncope with a 13 GHz concilioncope wit							
with a SI CHz casolioscope    Dx30-SP Tip							
Disagn-SP Tip   132 pc (typical)   132 pc (typic							
System in the time measured with a Si GHz oscilloscope with a Si GHz oscill							
System rise time measured with ±8 GHz oscilloscope with ±3 GHz oscillos							
with #3 GHz oscilloscope    Dxx30-SP Tip 12 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 13 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 3 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 3 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System in the time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 30 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps 40 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps (typical) System into time measured with #3 GHz oscilloscope   Dxx30-SP Tip 1 ps (typical) System into time							
Dix30-SH Tip   137 ps (typical)   System rise time measured with 25 GHz coefficeore   Dix30-SH Tip   137 ps (typical)   System rise time measured with 55 GHz coefficeore   System rise time measured with 55 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time measured with 51 GHz coefficeore   Dix30-SH Tip   System rise time				With ≥13 GHz oscilloscope			
System rise time measured with 13 GHz positiopscope   System rise time measured with 13 GHz positiop		Militad on iz dodiniodcope	With 216 of 12 dod 116 dog 1	Dxx30-SP Tip			
Dix30-SI, Dix30-SIMA-SMP, and Dix30-PT Tips				132 ps (typical)			
Dux30-SI, Dux30-SIA, Dux30-SIA, Dux30-SIA, Dux30-SIA, SMR, and Dux30-SI, Dux30-SIA, SMR, and Dux30-PT Tips 37.5 ps (typical) System rise time measured with a 36 ft of socilloscope with a 13 6ft of socilloscope wit							
Dix30-PT Tips   37.5 ps (typical)   37.5 ps (typical)   39. ps (ty	Dica Time (20-90%)	Day 20 Cl Day 20 Child Child and	Dwg0 Cl Dwg0 CMA CMD and				
37 5,ps (typical)   30 ps (typical)   System rise time measured with a 3 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz oscilloscope   Dxx30-SP Tip   System rise time measured with a 13 GHz	nise Tillie (20-00%)						
System rise time measured with \$3 GHz oscilloscope   Dx30-SP Tip   10 ps (typical)   System rise time measured with \$13 GHz oscilloscope   Dx30-SP Tip   10 ps (typical)   System rise time measured with \$13 GHz oscilloscope   Dx30-SP Tip   10 ps (typical)   System rise time measured with \$13 GHz oscilloscope   System rise time measured with \$13 GHz oscilloscope   Dx30-SP Tip   10 ps (typical)   System rise time reasured with \$13 GHz oscilloscope   Dx30-SP Tip   Dx30-SP Ti							
Dix30-SP Tip   100 ps (typical)   System rise time measured with a 13 GHz oscilloscope with a 13 GH		System rise time measured		with ≥13 GHz oscilloscope			
Document		with ≥8 GHz oscilloscope	with ≥13 GHz oscilloscope				
100 ps (typical)   System rise time measured with ≥8 GHz oscilloscope   System rise time measured with ≥8 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 GHz oscilloscope   Dxx30-SP Tip 100 GHz oscilloscope   Dxx30-SP Tip 100 GHz oscilloscope   Dxx		D20 OD Ti	D20 OD Ti				
System rise time measured with ≥ 8 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥ 13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥ 13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical)   System rise time measured with ≥ 13 GHz oscilloscope   System rise time measured with ≥ 13 GHz oscilloscope   System rise time measured with ≥ 13 GHz oscilloscope   System rise time measured with ≥ 13 GHz bandwidth.   System rise time measured w							
with ≥8 GHz oscilloscope   with ≥13 GHz oscilloscope   Dxx30-SP Tip 100 ps (typical) System rise time measured with ≥13 GHz oscilloscope   Ad8 mV/NHz (4.3 mVrms) (typical)   System rise time measured with ≥13 GHz oscilloscope   Ad8 mV/NHz (4.3 mVrms) (typical)   Referred to input, 18 GHz bandwidth.   Referred to input, 18 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   SynV/NHz (5.2 mV/NHz (5.2 mV/N							
Noise (Probe)							
System rise time measured with 313 GHz oscilloscope   48 nV/VHz (4.3 mVrms) (typical)   Referred to input, 10 GHz bandwidth   Referred to input, 13 GHz bandwidth   Referred to input, 10 GHz bandwidth   Referred to input, 13 GHz bandwidth   Referred to input, 10 GHz bandwidth   Referred to input, 13 GHz bandwidth   Referred to input, 10 GHz bandwidth   Referred to input, 13 GHz bandwidth   Referred to input, 10 GHz bandwidth   Referred to inpu							
With ≥13 GHz oscilloscope   with ≥13 GHz oscilloscope   with ≥13 GHz oscilloscope   with ≥13 GHz oscilloscope   seferred to input, 8 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13							
Referred to input, 18 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Referred to in							
Noise (System)   A52 nV/VHz (4.6 mV/ms) (typical)   Referred to input, 8 GHz bandwidth.   Referred to input, 10 GHz bandwidth.   Referred to input, 13 GHz bandwidth.   Ref	Noise (Probe)						
Input Unput Unput Common Mode Voltage Range   3.5 Vpk.pk, ±1.75V (nominal)   nput Common Mode Voltage Range   ±5 V (nominal)   nput Offset Voltage Range   ±4 V Differential (nominal)   Non-destructive Input Range   ±15 V (nominal)   Non-destructive Input Range   Non-destru	Noise (System)						
Input Dynamic Range   3.5 Vpk-pk, ±1.75 V (nominal)   nput Common Mode Voltage Range   ±5 V (nominal)   nput Offset Voltage Range   ±4 V Differential (nominal)   Non-destructive Input Range   ±15 V (nominal)   Non-destructive Input Resistance (nominal)   200 kΩ Differential Input Resistance (nominal)   Non-destructive Input Resistance (nominal)   Non-destructive Input Range   Non-destructiv		Referred to input, 8 GHz bandwidth.	Referred to input, 10 GHz bandwidth.	Referred to input, 13 GHz bandwidth.			
Input Common Mode Voltage Range	Input						
Aput Offset Voltage Range   ±4 V Differential (nominal)							
Attenuation   3.75 \( \text{Inominal} \)	•						
Attenuation   3.75x (nominal)   200 kΩ Differential   200 kΩ Differential   500 kΩ Common mode   500 kΩ Common							
DC Input Resistance (nominal)   200 kΩ Differential   50 kΩ Common mode							
Sol kΩ Common mode							
Mapedance (Zmin, typical)   \$250 Ω Differential through entire frequency range using SI tip	be input nesistance (nominal)						
Dxx30-SI Lead   470 Ω at 4 GHz, 320 Ω at 6 GHz, 260 Ω at 8 GHz, 250 Ω at 9 GHz, 260 Ω at 10 GHz, 350 Ω at 13 GHz	Impedance (7min_typical)	\$250 O		g SI tip			
Dxx30-PT Tip   155 Ω at 4 GHz, 210 Ω at 6 GHz, 140 Ω at 8 GHz, 80 Ω at 9 GHz, 40 Ω at 10 GHz	Impedance (mid-band, typical)						
Dxx30-PT Tip   155 Ω at 4 GHz, 210 Ω at 6 GHz, 140 Ω at 8 GHz, 80 Ω at 9 GHz, 40 Ω at 10 GHz	, , , , , , , , , , , , , , , , , , , ,	$470\mathbf{\Omega}$ at 4 GHz. $320\mathbf{\Omega}$ at 6	GHz, 260 $\Omega$ at 8 GHz, 250 $\Omega$ at 9 GHz, 260 $\Omega$ a	t 10 GHz. 350 <b>Ω</b> at 13 GHz			
155 Ω at 4 GHz, 210 Ω at 6 GHz, 140 Ω at 8 GHz, 80 Ω at 9 GHz, 40 Ω at 10 GHz							
S8 dB DC / 100 Hz   38 dB to 10 MHz   38 dB to 10 MHz   38 dB to 3 GHz   20 dB to 8 GHz   20 dB to 8 GHz   (typical)		·					
38 dB to 10 MHz 30 dB to 3 GHz 20 dB to 8 GHz (typical)  Differential Input Return Loss (with \$MA/\$MP Lead Set, typical)  Environmental  Temperature  Operating: 0 °C to 40 °C; Non-operating: -40 °C to 70 °C  Humidity  Operating: 5% to 80% RH (non-condensing), 50% RH above 30 °C Non-operating: 5% to 95% RH (non-condensing), 75% RH above 30 °C and 45% RH above 40 °C  ESD Tolerance  2 kV (typical)  100 pF, 300 Ω HBM  Dimensions  Dixx30-PT Postioner Tip  0 to 3.5 mm (0 to 0.14") 305 μm (0.012") diameter 0.55 mm (0.022") Z-axis compliance  Dixx30-SI Tip  0 to 9 mm (0 to 0.35") tip spread at circuit connection		155 $oldsymbol{\Omega}$ at 4 GHz, 2		40 <b>Ω</b> at 10 GHz			
30 dB to 3 GHz   20 dB to 8 GHz   (typical)	CMRR						
20 dB to 8 GHz (typical)							
(typical)							
Comparison			(typical)				
Comperature	Differential Input Return Loss		> 14 dB @ 8, 10, or 13 GHz (VSWR <1.5:1)				
Image: Temperature         Operating: 0 °C to 40 °C; Non-operating: -40 °C to 70 °C           Humidity         Operating: 5% to 80% RH (non-condensing), 50% RH above 30 °C           Non-operating: 5% to 95% RH (non-condensing), 75% RH above 30 °C and 45% RH above 40 °C           ESD Tolerance         2 kV (typical)           100 pF, 300 Ω HBM           Dimensions         0 to 3.5 mm (0 to 0.14")           305 μm (0.012") diameter           0.55 mm (0.022") Z-axis compliance           Dxx30-SI Tip         0 to 9 mm (0 to 0.35") tip spread at circuit connection							
Operating: 5% to 80% RH (non-condensing), 50% RH above 30 °C				2.00			
Non-operating: 5% to 95% RH (non-condensing), 75% RH above 30 °C and 45% RH above 40 °C							
2 kV (typical) 100 pF, 300 Ω HBM  Dimensions  Dixx30-PT Postioner Tip  0 to 3.5 mm (0 to 0.14") 305 μm (0.012") diameter 0.55 mm (0.022") Z-axis compliance  Dixx30-SI Tip  0 to 9 mm (0 to 0.35") tip spread at circuit connection	numaity						
Dimensions  Dixx30-PT Postioner Tip $0 to 3.5 mm (0 to 0.14")$ $305 μm (0.012") diameter$ $0.55 mm (0.022") Z-axis compliance  Dixx30-SI Tip  0 to 9 mm (0 to 0.35") tip spread at circuit connection$	ESD Tolerance						
Dxx30-PT Postioner Tip 0 to 3.5 mm (0 to 0.14") 305 μm (0.012") diameter 0.55 mm (0.022") Z-axis compliance  Dxx30-SI Tip 0 to 9 mm (0 to 0.35") tip spread at circuit connection			(31 /				
305 µm (0.012") diameter 0.55 mm (0.022") Z-axis compliance  Dxx30-SI Tip 0 to 9 mm (0 to 0.35") tip spread at circuit connection	Dimensions		•				
0.55 mm (0.022") Z-áxis compliance  Dxx30-SI Tip 0 to 9 mm (0 to 0.35") tip spread at circuit connection	Dxx30-PT Postioner Tip	<del></del>					
Dxx30-SI Tip 0 to 9 mm (0 to 0.35") tip spread at circuit connection							
	Dvv30-SI Tin	0 to		On			
	Cable Length			OI I			

# **ORDERING INFORMATION**

Product Description Complete Probe Systems	<b>Product Code</b>
8 GHz Complete Probe System with Dxx30-SI Solder-In Tip (Qty. 2), Dxx30-SP Square Pin (Qty. 1), and Dxx30-PT-KIT Positioner Tip Browser (Qty. 1)	D830-PS
10 GHz Complete Probe System with Dxx30-SI Solder-In Tip (Qty. 2), Dxx30-SP Square Pin (Qty. 1), and Dxx30-PT-KIT Positioner Tip Browser (Qty. 1)	D1030-PS
13 GHz Complete Probe System with Dxx30-SI Solder-In Tip (Qty. 2), Dxx30-SP Square Pin (Qty. 1), and Dxx30-PT-KIT Positioner Tip Browser (Qty. 1)  Amplifier and Probe Tip Modules	D1330-PS
WaveLink D830 8 GHz/3.5V <sub>p-p</sub> Differential Probe Amplifier with Dxx30-SI Solder-In Tip (Qty. 2) and Dxx30-SP Square Pin (Qty. 1)	D830
WaveLink D1030 10 GHz/3.5V <sub>p-p</sub> Differential Probe Amplifier with Dxx30-SI Solder-In Tip (Qty. 2) and Dxx30-SP Square Pin (Qty. 1)	D1030
WaveLink D1330 13 GHz/3.5V <sub>p-p</sub> Differential Probe Amplifier with Dxx30-SI Solder-In Tip (Qty. 2) and Dxx30-SP Square Pin (Qty. 1)	D1330
Positioner Tip (Browser) Kits  WaveLink Dxx30-PT (up to 10 GHz rating) Adjustable Positioner Tip Kit. For use with Dxx30 amplifiers.  Probe Platform/Cable Assemblies and Adapters	Dxx30-PT-KIT
WaveLink ProLink Platform/Cable Assembly Kit with complete soft carrying case for all probe items.	WL-PLINK-CASE

Product Description Accessories	Product Code
Cascade Microtech EZ-Probe Positioner	EZ PROBE
Probe Deskew and Calibration Test Fixture	TF-DSQ
Calibration Options	
NIST Calibration for D830. Includes test data.	D830-CCNIST
NIST Calibration for D1030. Includes test data.	D1030-CCNIST
NIST Calibration for D1330. Includes test data.	D1330-CCNIST
Replacement Parts	
Replacement Dxx30-SP 8-13 GHz Square Pin Lead	Dxx30-SP
Replacement Dxx30-SI 8-13 GHz Solder-In Lead with Qty. 5 Spare Resistors.	Dxx30-SI
Replacement SI Resistor Kit for Dxx05-SI and Dxx30-SI Solder-In Tip - Kit of 5	Dxx05-SI-RESISTORS
Qty. 4 Replacement Pogo Pin Tips and Qty. 2 Replacement Sockets for Dx10-PT, Dx20-PT, and Dxx30-PT Adjustable Positioner Tips.	Dxx0-PT-TIPS
Replacement Probe Tip Holder Kit	PK600ST-3
Replacement Platform/Cable Assembly Mounting Kit	PK600ST-4
Quantity 1 Package of Black Adhesive Pads (10/pkg) and Quantity 1 Package of White Adhesive Pads (10/pkg)	Dxx0-PT-TAPE
Quantity 1 Package of Adhesive Probe Connection Guides (200 individual guides/package)	Dxx05-PT-GUIDES

#### **SMA/SMP Lead Set**

Lead set consisting of WaveLink Dxx30-SMA-SMP-LEADS for use with Dxx30 amplifiers.

Dxx30-SMA-SMP-LEADS

#### **Customer Service**

Teledyne 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 teledynelecroy.com

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