

Product Name: ZX230AP USB 3.0 3.1 Test Board - Type A Plug Transmitter & Receiver Test Fixture breakout adapter

Product Description: High Speed Inter-Chip HSIC USB 2.0 - SuperSpeed USB Inter-Chip USB 3.0 test board Transmitter and Receiver test fixture (breakout Adapter) with the USB2.0 USB 3.0 Type A connector

Designed meeting electrical compliance testing; eye diagram, jitter (random, deterministic, total jitter, SCC profiles tests. Slew, Voltage levels and more).

Designed in 4 layer - 100 Ω differential trace impedance - electrical test measurement requirements.

Includes : USB3.0 **Type A** Plug with standard SMA connectors.
Accessible 0.1" (2.54mm) pitch header, enabling "Power measurement" of the VBUS.

ZX230 Insertion loss - Type A	
Freq.	Log Mag (-dB)
100MHz	0.04775
1.25GHz	0.9045
2.5GHz	1.03775
5GHz	3.87325

Test Case: Using ZX230AP(Type A Plug) with ZX230AR(type A Receptacle)
Network Analyzer: Agilent, Model E5071C 4 ch. 8.5GHz

Application: Electrical test, Clock Jitter measurement, eye diagram, characterization test, Pre-certification full electrical test

Mates with : **Type A** – High Speed Inter-Chip HSIC USB 2.0 - SuperSpeed USB Inter-Chip Specification 3.0 Receptacle
SMA – Brass with Gold finish 5u" on RING, 35u" GOLD Plated at pin. Insulator: PTFE
Header 0.1" center, 0.025" SQ with 0.23" (5.8mm) post height

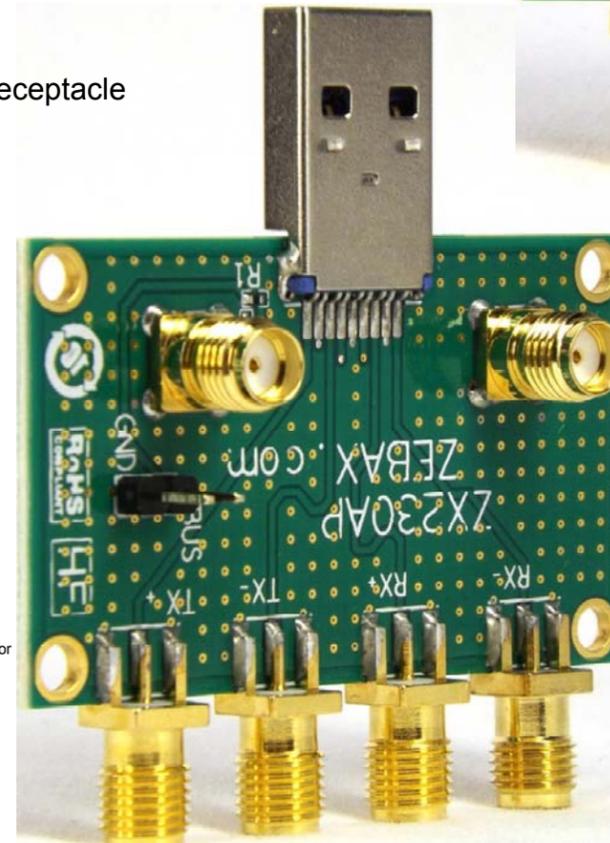
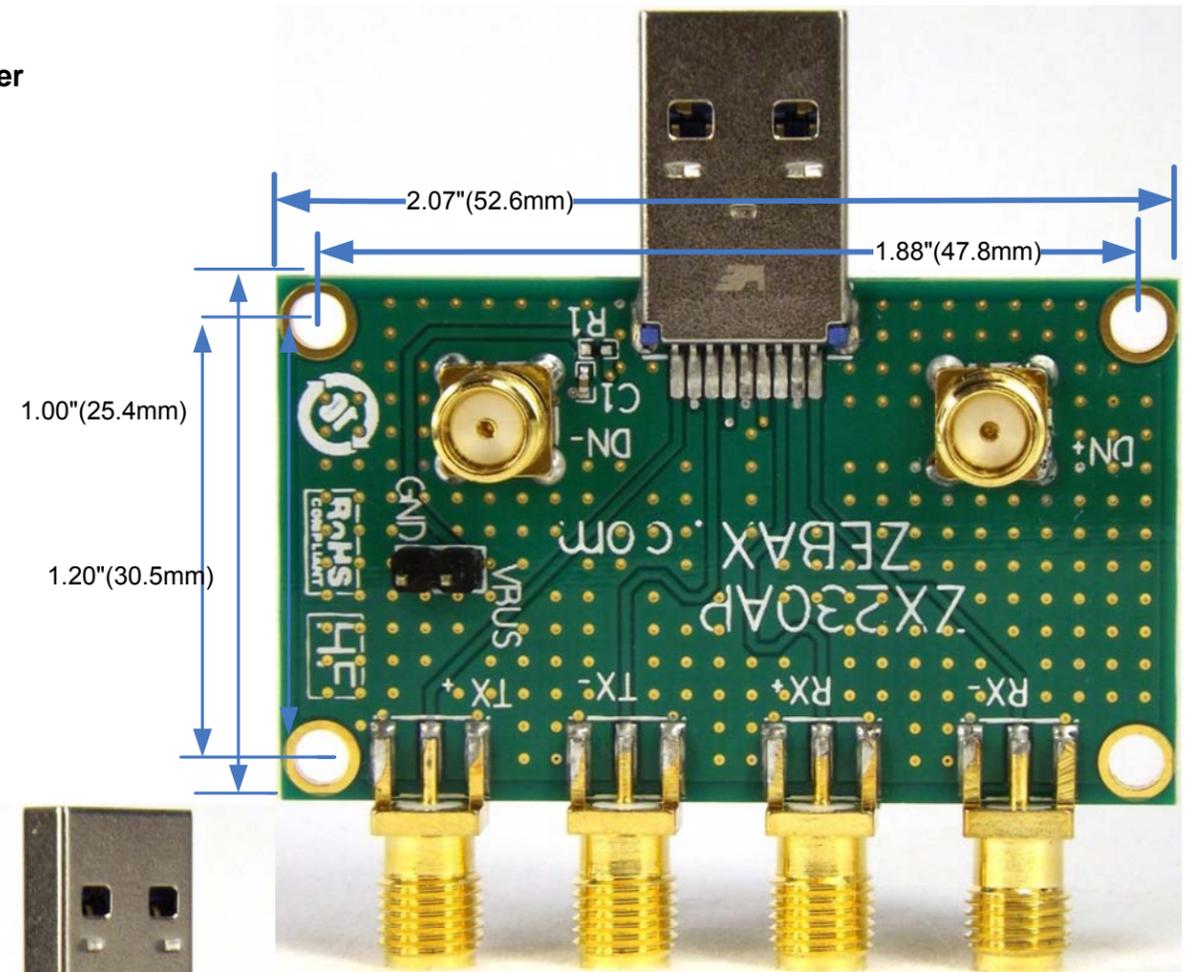
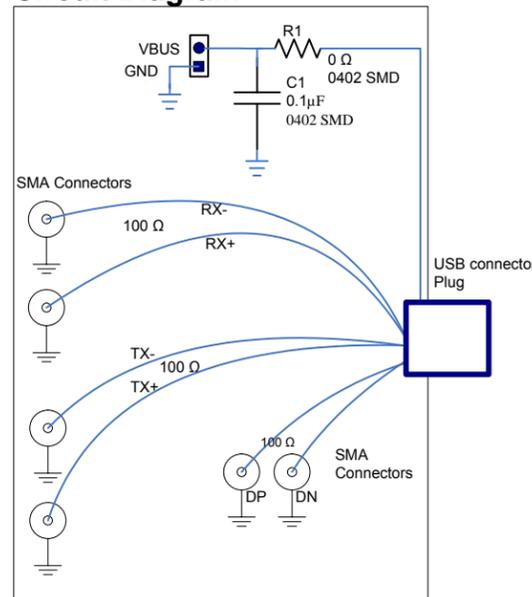
Test procedure: Compatible with Agilent, Tektronix and Lecroy automated test procedure

Pinouts: USB 2.0 USB 3.0 Type A Plug and the header pin assignments listed.

USB Bandwidth : Table below lists the standard USB USB 2.0 and USB 3.0 signal bandwidth.

USB	
Low Speed USB 2.0	1.5Mbps
Full Speed USB 2.0	12Mbps
High Speed USB 2.0	480Mbps
SuperSpeed USB3.0	5Gbps

Circuit Diagram



Type A Plug	
Pin	Function
1	VBUS
2	DN
3	DP
4	GND
5	RX-
6	RX+
7	GND
8	TX-
9	TX+

Power	
Pin	Function
1	GND
2	VBUS

VBUS Power measurements:
Use **JVBUS** for power measurements.

Note
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ZEBAX TECHNOLOGIES
SANTA CRUZ, CA U.S.A (831) 222-0717
WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT
ASSEMBLY DRAWING
ITEM:ZX230AP USB 3.0 Test Board

DESCRIPTION: HSIC USB 2.0 SuperSpeed Inter-Chip USB 3.0 Test Board – Type A Plug breakout adapter Test Fixture

CHECKED: M. MARINA
DRAWN: SLAVIK
REVISION: 1.0
SHEET: 1 OF 1

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