**Product Name: ZX230CAP USB type C test fixture** TPA-P TDR electrical test fixture for application specific designs 16+GHz bandwidth

Product Description: USB Type C TPA-P TDR electrical test fixture supporting USB Type C connector Plug. ZX230CAP TPA USB type C electrical test fixture is designed for application designs requiring USB type C connector.

- ZX230CAP is designed supporting variety of applications, including **Display Port** ( DP ) **HDMI** , connector characterization, embedded
- ALL signals (from USB type C connector) are accessible for test and measurement via SMA connector.
- ZX230CAP is designed for 16GHz applications offering ultra low insertion loss and full flexibility in adapting to any designs applications for purpose of validation, characterization and functional test.

The ZX230CAP is designed in multi-layer PCB with 50 Ohms trace impedance. ZX230CAP USB type C test fixture is best in class in signal integrity, reduced cross talk, performance, and functional flexibility.

- Any of the USB type C signals may be assigned to system GND.
- Accessible GND test points for easy access to the fixture GND layers
- -Using ZX00SMAS-P or ZX00SMAH-P cable assembly, the ZX230CAP can interface with any test equipment, evaluation module requiring standard pin header or receptacle (socket).

ZX230CAP is offered with 5.5" (14cm) long semi-flexible coax cable assemblies with SMA Jack connectors interfacing directly to scope probe, test equipment or other cable assemblies, Please see ordering Information.

> See Page 2 for more information

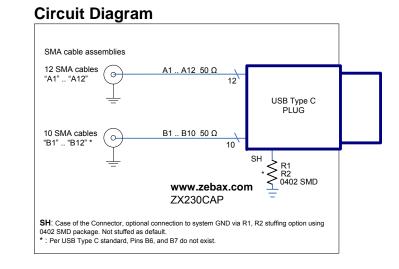
**Application:** Full USB 3.1 electrical compliance test fixture – Electrical measurement of application specific designs using USB Type C connector such as Display Port, DP, HDMI, connector characterization embedded and more.

Supported bandwidth: Supporting SuperSpeed Gen1 (2.5GHz) SuperSpeed Gen2 (5GHz) and future 20Gbps (10GHz) Nyquist frequencies, bandwidth.

**USB Type C Socket ( receptacle )** connector. Mates with:

SMA connectors mates with standard SMA cable assembly, see ordering information





Ordering INFO: Part Number ZX230CAP

ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated

## Package includes:

ltem	Part number	Quantity	Description
1	ZX230CAP	1	USB Type C test fixture.
2	ZX230CP	0	USB Type C test fixture
3	ZX230CAPC	0	USB Type C test fixture - application specific
4	ZX00SMAH-P	0	SMA to 2 pin header cable assembly
5	ZX00WT-09NM	1 0	SMA Wrench Torque 5/16" (8mm)

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS," ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED. STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE

Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or system

## **ZEBAX TECHNOLOGIES**

1.53"(39mm)

SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM).

ASSEMBLY DRAWING

ITEM: ZX230CAP

DESCRIPTION: USB 3.1 Type C Plug TPA-P electrical test fixture for application specific designs

CHECKED: M. MARINA

1.227"(31.16mm)

DRAWN:

REVISSION: 1.0

SLAVIK

SHEET 1 OF 2

Plug test fixture Plug test fixture **Product Name: ZX230CAP USB type C test fixture** TPA-P TDR electrical test fixture breakout adapter for 10+GHz bandwidth cont's A1 A12 A12 S-Parameter, Insertion loss: The ZX230CAP USB type C test fixture exhibits unprecedented insertion loss. ZX230CAP ZX230CAS Using Agilent NA, the s-parameter for all the signal lanes have been complied for reference, see below. Test case: Using mated network configuration ( ZX230CAP – ZX230CAS ) Test network: ZX230CAP - ZX230CAS Plug and Receptacle via the supplied SMA cable assembly ZX230CAP-ZX230CAS – It is .7z file. It consists of 22 .s4p files. S-Parameter files: S12: A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 S11: B6, B7 on ZX230CAS module only ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated **ZEBAX TECHNOLOGIES** SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT ITEM: ZX230CAP **DESCRIPTION:** USB 3.1 Type C Plug TPA-P electrical test fixture for application specific designs ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. CHECKED: DRAWN: REVISSION: 1.0Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems M. MARINA **SLAVIK** SHEET: 2 OF 2