

**Product Name:** ZX050C-SOT23 (SC-59 TO-236AB) SOT23 (TO236AB, SC-59) Characterization testing bringup breakout module

**Product Description:** High Speed characterization module meeting 10GHz signal bandwidth with < 0.3dB insertion loss. Each pin of the device under test, U1, is accessible via 2 dedicated SMA connectors for external stimulus as well as measurement purpose.

ZX050C-SOT23 ( TO236AB SC-59 ) is designed for ASIC ( IC ) characterization, functional testing of ANY SOT23 (TO236AB, SC-59) packaged device. ZX50C-SOT23 is designed with 50 Ω ( Ohms ) trace impedance using 4 layer PCB. The module includes 35μ gold plated SMA connectors.

Ideal evaluation, bringup, and testing of any discrete component such as ESD diode using SOT23 (TO236AB, SC-59 ) footprint package.

Available 2 pin header for interfacing to any standard Power Supply. Onboard C1 ( 0402 SMD package) is available for applications using pin 3 of the DUT as supply rail to the device. C1 can be populated with 0.1 μF or similar decoupling capacitor.

AGND pin of the 2 pin header is the module's GND reference, interfacing with the module's AGND layers.

**Application:** Bringup, Characterization, testing, development, modular design evaluations

**Target DUT :** Designed specifically for any SOT23 (TO236AB, SC-59) SMD device with SMA connector access to all pins of the SOT23 device.

**Pitch:** Standard SOT23 ( TO236ABSC-59 ) SMD package or equivalent

**Headers:** Ground access test point (GND) - 0.025" SQ with 0.32" (5.6mm) post height

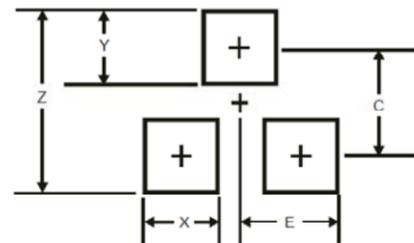
**DUT landing pads:** Surface Mount, 3 pin package – Body 2.9x1.3mm (Length Width ) or equivalent

**DIMENSIONS ( mm )**

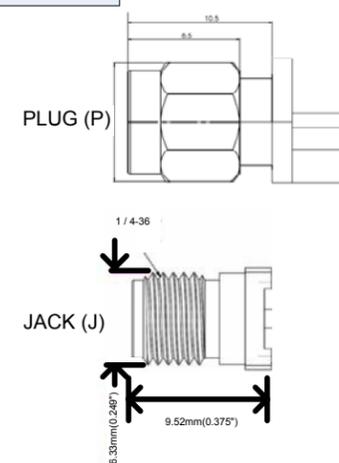
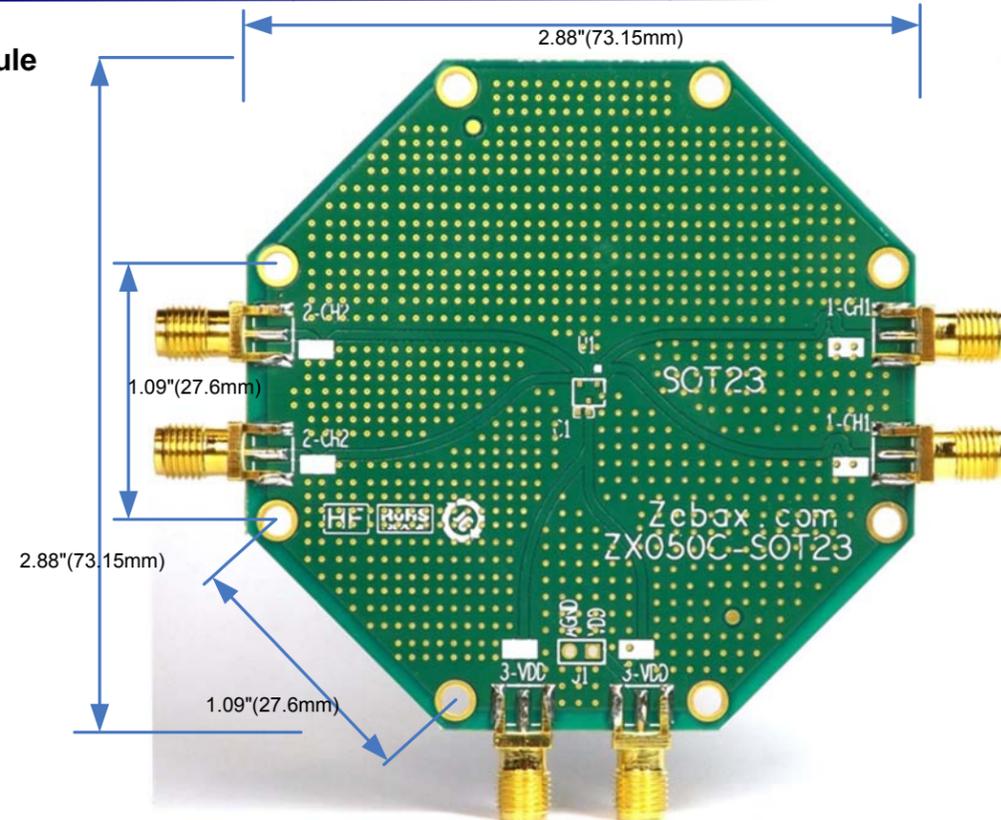
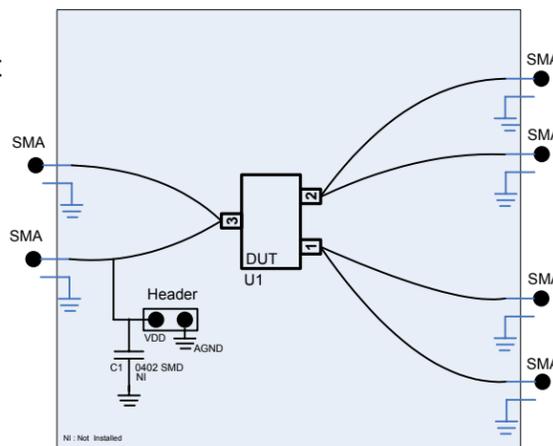
UNIT		C	E	X	Y	Z
mm	max Typical min	2.00	1.35	0.80	0.900	2.900

OUTLINE Version	REFERENCES		
	IEC	JEDEC	JEITA
SOT23		TO236AB	SC-59

**SMA:**  
 Impedance: 50Ω  
 Temp Range: -65°C +165°C  
 Vibration: MIL-STD-202, Method 213  
 Frequency Range: DC – 12GHz  
 Working Voltage: 335V max  
 Withstand Voltage: 1000V rms  
 Center Contact: ≤3mΩ  
 Outer Contact: ≤2mΩ  
 Insulation resistance: ≥5000MΩ  
 VSWR Straight: ≤1.15 ( 0.8-2.5G)



**Simplified Block Diagram:**



**Ordering INFO:**

Part Number  
 ZX050C-SOT23J SMA Jack Connector type (standard)  
 ZX050C-SOT23P SMA Plug connector type

NOTE: ZX050C-SOT23 is shipped without DUT and C1. All SMA connectors are installed.

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

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

SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX050C-SOT23 (TO236AB)	
DESCRIPTION: SOT23 (TO236AB SC-59) characterization testing bringup breakout adapter SMA		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0
		SHEET: 1 OF 1

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