

**Product Name:** ZX050C-DFN2110-9 ( XSON9 SOT1178-1 ) 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-DFN2110-9 ( XSON9 SOT1178-1 ) is designed for ASIC ( IC ) characterization, functional testing of DFN2110-9 ( XSON9 SOT1178-1 ) packaged device. ZX50C-DFN2110-9 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, sensor, or any IC using DFN2110-9 ( XSON9 SOT1178-1 ) footprint package.

Available SS1, SS2 optional stuffing to GND via U1 pin 3. SS1, SS2 are standard 0402 SMD package footprint. User may apply any standard 0402 device as required, resistor, capacitor, bead. . .

Available GND test point header pin interfacing with the module's GND plane & GND fills

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

**Target DUT :** Designed specifically for any DFN2110-9 ( XSON9 ) SMD device with SMA connectors accessing all pins of the DFN2110-9 ( XSON9 )

**Pitch:** Standard DFN2110-9 ( XSON9 ) 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, 9 pins package – DFN2110-9 ( XSON9 SOT1178-1 ) or equivalent

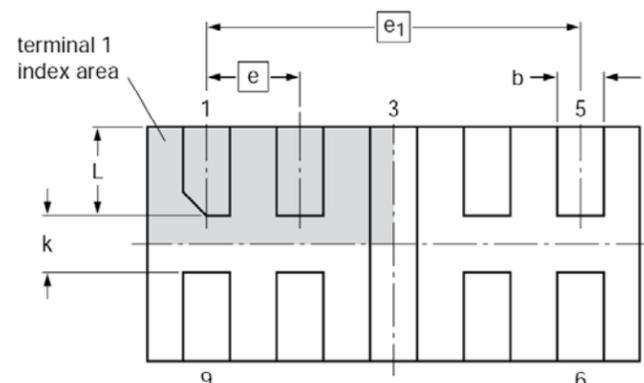
**DFN2110-9 DIMENTIONS ( mm )**

UNIT		b	e	e1	L	k
mm	max	0.25		1.60	0.43	
	Typical	0.20	0.40	1.60	0.38	
	min	0.15			0.33	0.200

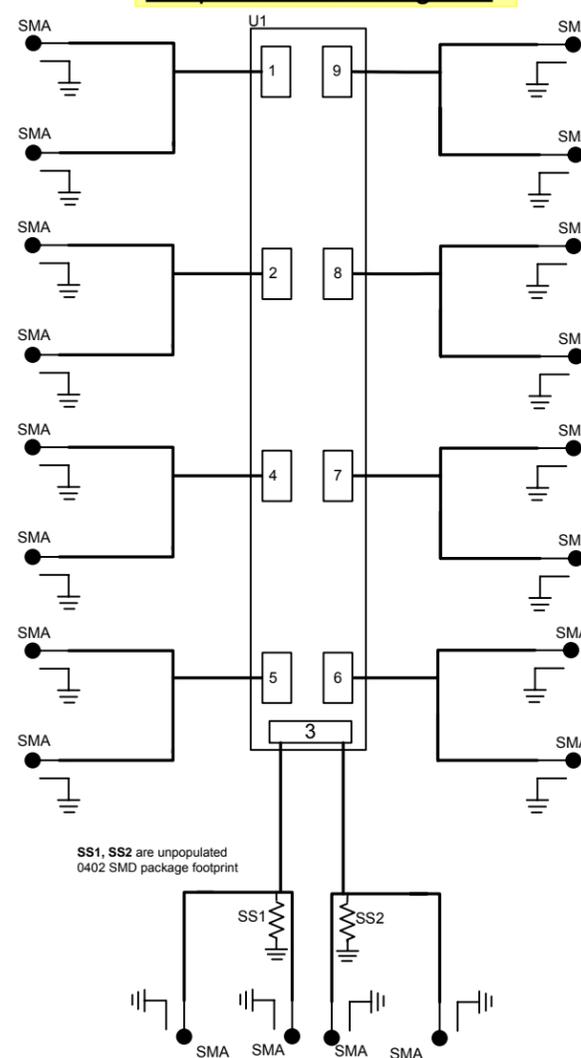
OUTLINE Version	REFERENCES			
	IEC	JEDEC	JEITA	
SOT1178-1				

**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 )

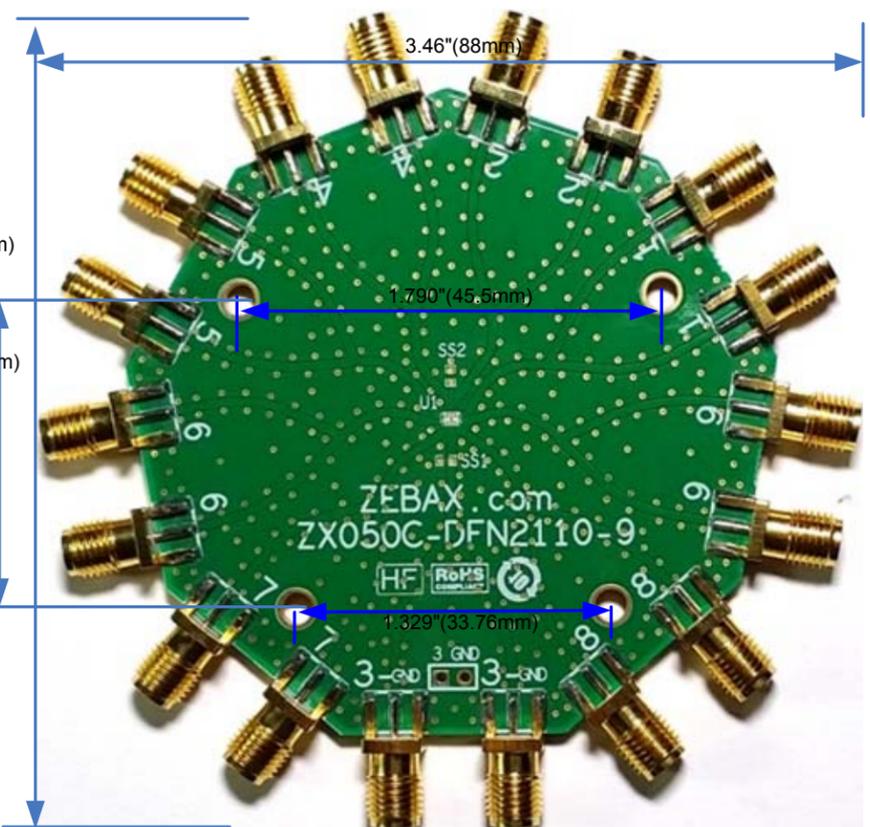
**Pad Layout**



**Simplified Block Diagram:**



SS1, SS2 are unpopulated 0402 SMD package footprint

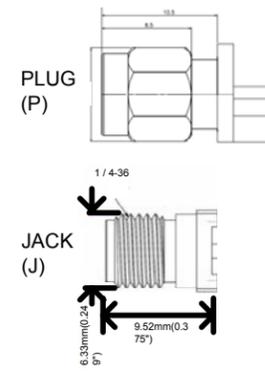


**Ordering INFO:**

Part Number  
 ZX050C-DFN2110-9J SMA Jack Connector type (standard)  
 ZX050C-DFN2110-9P SMA Plug connector type

NOTE: ZX050C-DFN2110-9 is shipped without DUT. All SMA connectors are installed.

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



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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT  
**ASSEMBLY DRAWING**  
**ITEM: ZX050C-DFN2110-9**

**DESCRIPTION:** DFN2110-9 XSON9 SOT1178-1 characterization testing bringup breakout adapter SMA

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

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