

Product Name: ZX050C-DFN2510-10 (XSON10 SOT1165 SOT1176) 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-DFN2510-10 is designed for ASIC (IC) characterization, functional testing of DFN2510-10 (XSON10 SOT1165 SOT1176) packaged device. ZX50C-DFN2510-10 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 DFN2510-10 (XSON10 SOT1165 SOT1176) footprint package.

Available SS1, SS2 optional stuffing to GND via U1 pin 3, 8. 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 DFN2510-10 U-DFN2510 (XSON10 SOT1165 SOT1176) SMD device with SMA connectors accessing all pins of the DFN2510-10 (XSON10 SOT1165 SOT1176)

Pitch: Standard DFN2510-10 (XSON10 SOT1165 SOT1176) 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, 10 pins package – DFN2510-10 U-DFN2510-10 (XSON10 SOT1165 SOT1176) or equivalent

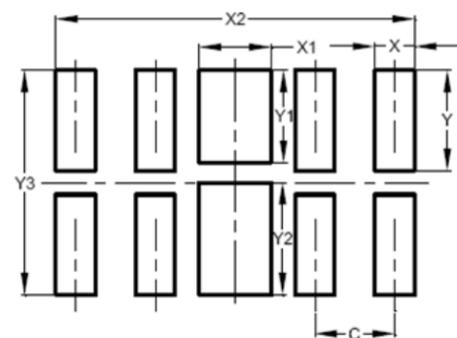
DFN2510-10 DIMENTIONS (mm)

UNIT		C	X	X1	X2	Y	Y2	Y3
mm	max Typical min	0.50	0.25	0.45	2.25	0.625	0.70	1.400

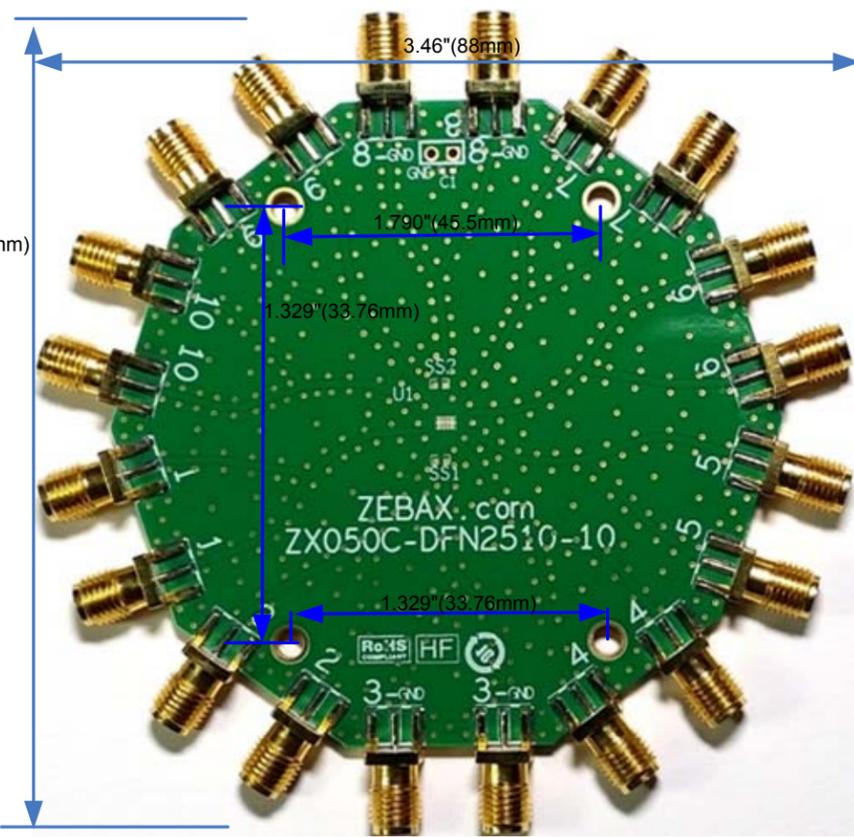
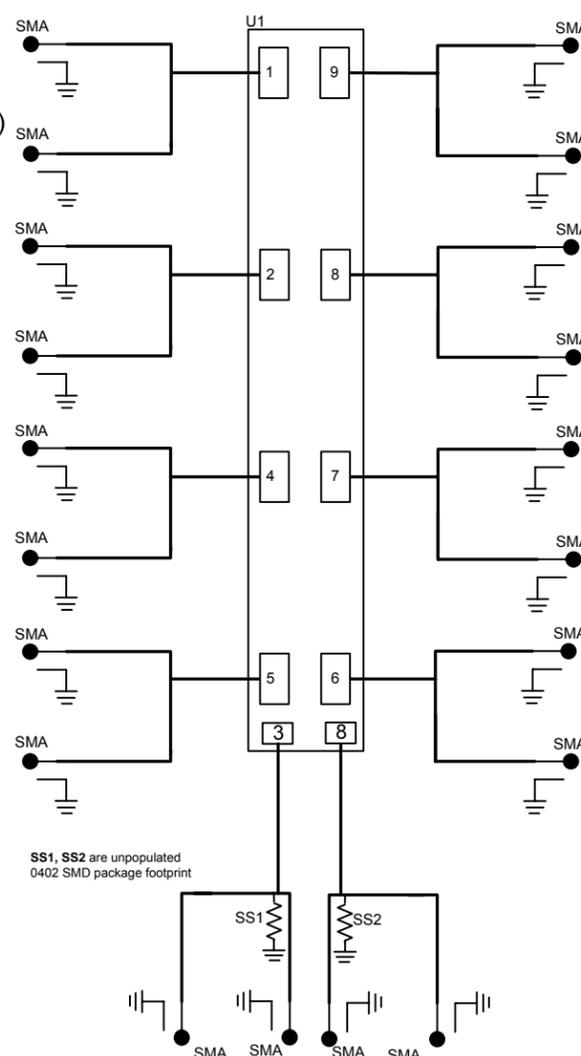
OUTLINE Version	REFERENCES			
	IEC	JEDEC	JEITA	
SOT1165-1				
SOT1176-1				

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



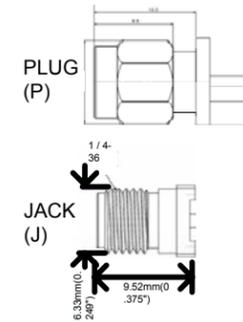
Simplified Block Diagram:



Ordering INFO:

Part Number
 ZX050C-DFN2510-10J SMA Jack Connector type (standard)
 ZX050C-DFN2510-10P SMA Plug connector type

NOTE: ZX050C-DFN2510-10 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-DFN2510-10

DESCRIPTION: U-DFN2510-10 DFN2510-10 XSON10 SOT1165 SOT1176 characterization testing bringup breakout adapter SMA

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