

**Product Name:** ZX050C-DFN3313-8 ( X1-DFN3313-8 ) 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-DFN3313-8 is designed for ASIC ( IC ) characterization, functional testing of X1-DFN3313-8 packaged device. ZX50C-DFN3313-8 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 X1-DFN3313-8 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 DFN3313-8 X1-DFN3313-8 SMD device with SMA connectors accessing all pins of the DFN3313-8 X1-DFN3313-8

**Pitch:** Standard DFN3313-8 X1-DFN3313-8 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, 8 pins package – DFN3313-8 X1-DFN3313-8 or equivalent

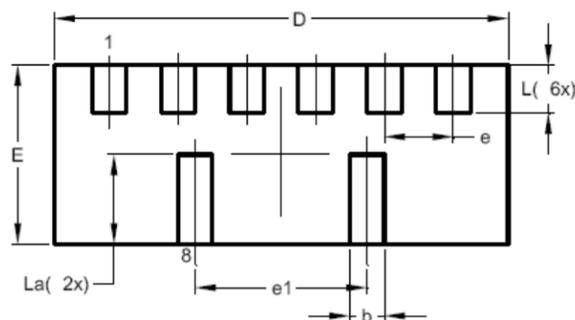
**X1-DFN3313-8 DIMENSIONS ( mm )**

| UNIT |         | b    | D    | E    | e    | e1    | L    | La    |
|------|---------|------|------|------|------|-------|------|-------|
| mm   | max     | 0.30 | 3.30 | 1.30 | 0.50 | 1.250 | 0.43 | 0.700 |
|      | Typical | 0.25 |      |      |      |       | 0.38 | 0.650 |
|      | min     | 0.20 |      |      |      |       | 0.30 | 0.570 |

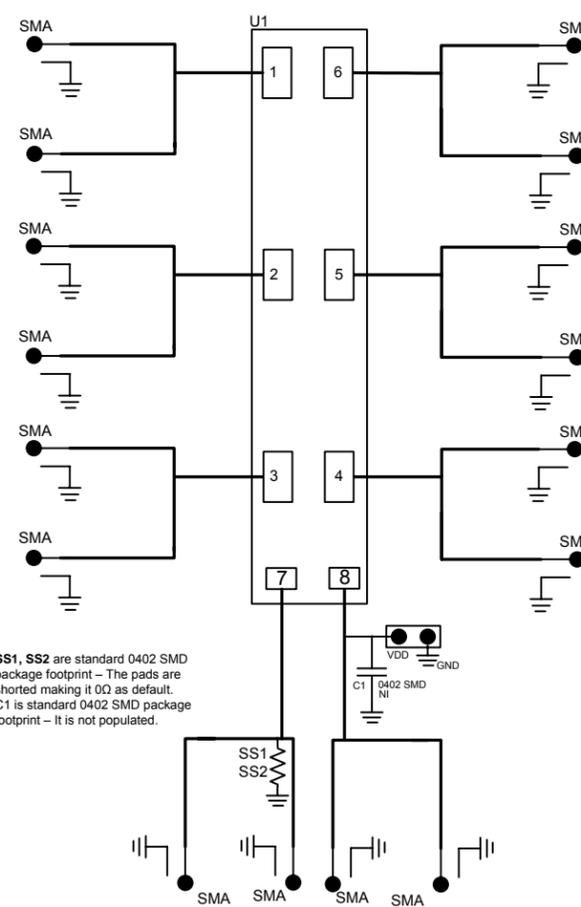
| OUTLINE Version | REFERENCES |       |       |  |
|-----------------|------------|-------|-------|--|
|                 | IEC        | JEDEC | JEITA |  |
|                 |            |       |       |  |

**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)

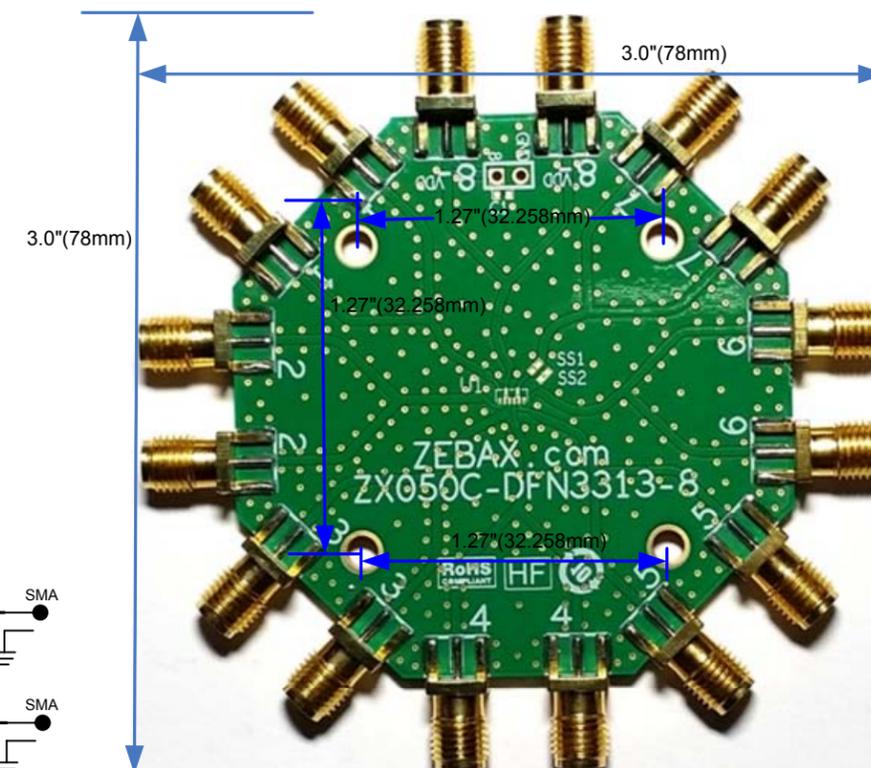
**Pad Layout**



**Simplified Block Diagram:**



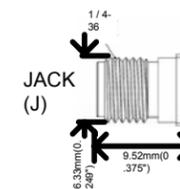
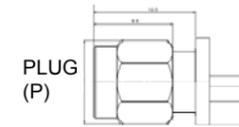
SS1, SS2 are standard 0402 SMD package footprint – The pads are shorted making it 0Ω as default. C1 is standard 0402 SMD package footprint – It is not populated.



**Ordering INFO:**

Part Number  
 ZX050C-DFN3313-8J SMA Jack Connector type (standard)  
 ZX050C-DFN3313-8P SMA Plug connector type

NOTE: ZX050C-DFN3313-8 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-DFN3313-8

DESCRIPTION: X1-DFN3313-8 DFN3313-8 characterization testing bringup breakout adapter SMA

CHECKED: M. MARINA

DRAWN: SLAVIK

REVISION: 1.0

SHEET: 1 OF 1

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