

Product Name: ZX050C-SOT363 (SC-70) SOT363 (SC-70) 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- DUT, U1, is accessible via 2 dedicated SMA connectors for external stimulus as well as measurement purpose.

ZX050C-SOT363 is designed for ASIC (IC) characterization, functional testing of ANY SOT363 packaged device. ZX50C-SOT363 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 SOT363 footprint package.

Available 2 pin header for interfacing to any standard Power Supply. The onboard C1 (0402 SMD package) is available for applications using pin 5 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.

The "2-GND" SMA connectors have connection option to the module's GND reference, AGND, via onboard SS5 , SS6 (0402 SMD package). The SS5, SS6 can be removed, if required.

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

Target DUT : Designed specifically for any SOT363 SMD device with SMA connector access to all pins of the SOT363 device.

Pitch: Standard SOT363 (SC-74R) SMD package or equivalent

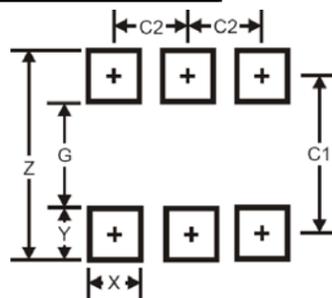
Headers: Ground access test point (GND) - 0.025" SQ with 0.32" (5.6mm) post height

DUT landing pads: Surface Mount, 6 pin package – see table below

DIMENSIONS (mm)

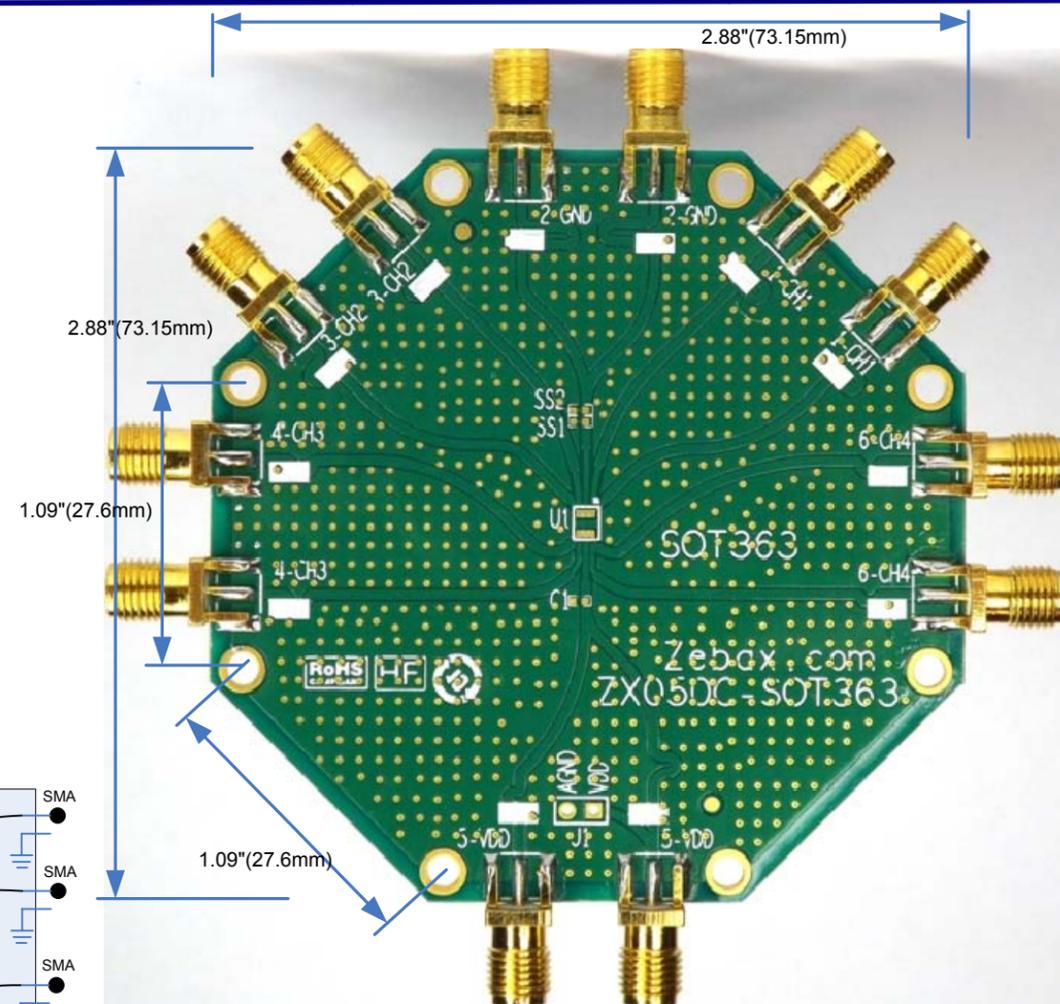
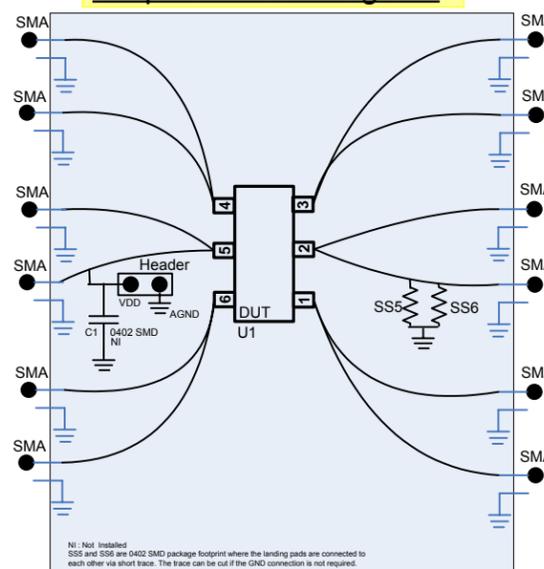
UNIT		Z	G	X	Y	C1	C2
mm	max Typical min	2.50	1.30	0.42	0.600	1.90	0.65

OUTLINE Version	REFERENCES		
	IEC	JEDEC	JEITA
SOT323			SC-70



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:

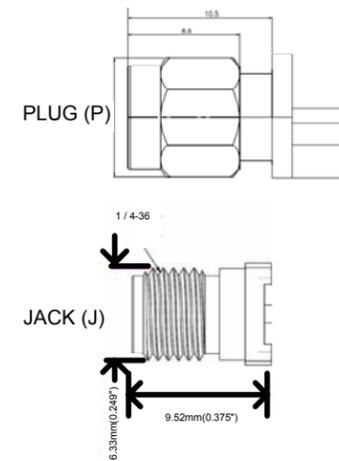


Ordering INFO:

Part Number
 ZX050C-SOT363-J SMA Jack Connector type (standard)
 ZX050C-SOT363-P SMA Plug connector type

NOTE: ZX050C-SOT363 is shipped without DUT and C1. All SMA connectors are installed.

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



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

SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX050C-SOT363 (SC-70)	
DESCRIPTION: SOT363 (SC-70) characterization testing bringup breakout adapter SMA		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1

Notice

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 systems.