Product Name: **ZX050C-MSOP8 (TSSOP8) MSOP8-EP (TSSOP8) Characterization testing bringup breakout module**

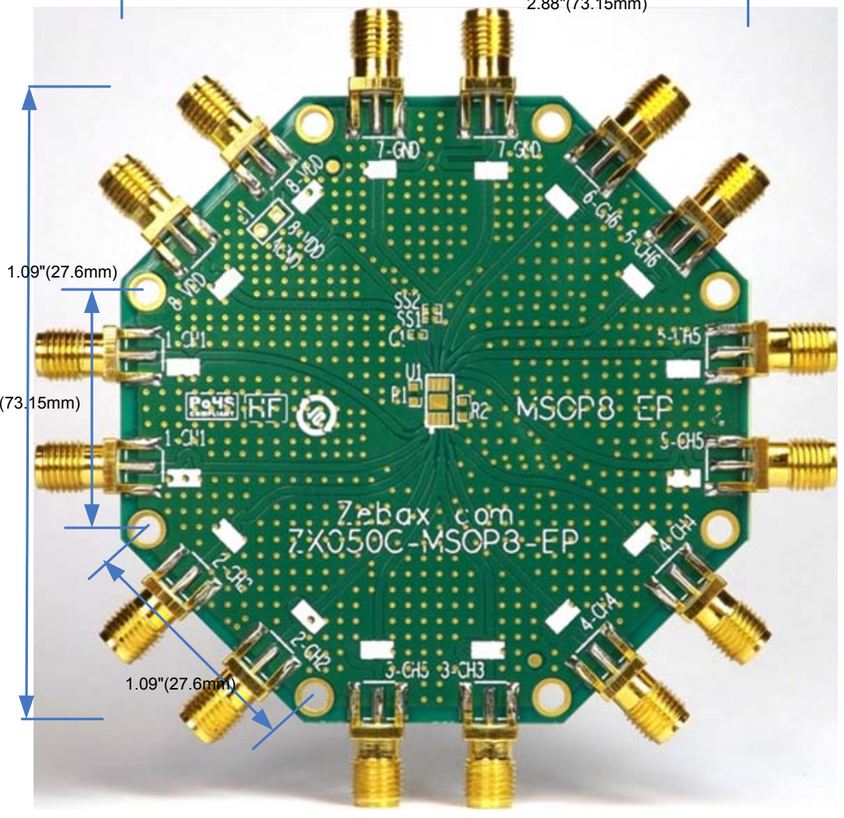
Product Description: High Speed characterization module meeting 10GHz signal bandwidth with < 0.3dB insertion loss. Each pin of the device under test- DUT, U1, is accessible via 2 dedicated SMA connectors for external stimulus as well as measurement purpose.

ZX050C-MSOP8 (TSSOP8) is designed for ASIC Integrated Circuit (IC) characterization, functional testing of ANY MSOP8 (TSSOP8) packaged. ZX50C-MSOP8 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 MSOP8 (TSSOP8) 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 "7-GND" SMA connectors have connection option to the module's GND reference, AGND, via onboard SS2 , SS3 (0402 SMD package). The SS2, SS3 can be removed, if required.



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

Target DUT : Designed specifically for any MSOP8 TSSOP8 MSOP8-EP SMD device with SMA connector access to all pins of the MSOP8 device.

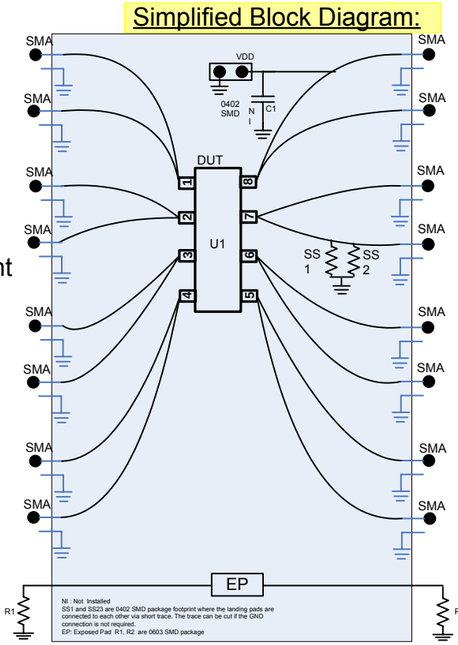
Pitch: Standard MSOP8 MSOP8-EP (exposed pad) TSSOP8 SMD package or equivalent

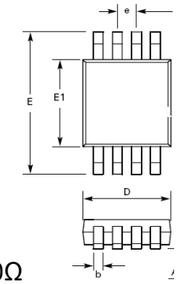
Headers: Ground access test point (GND) - 0.025" SQ with 0.32" (5.6mm) post height

DUT landing with EXPOSED Pad, EP: Two 0603 SMD devices are reserved connecting the EP to GND.

DUT landing pads: Surface Mount, 8 pin package – see table below

Simplified Block Diagram:





MSOP8 DIMENTIONS (mm)

UNIT		E	E1	e	D	b
mm	max		3.10		3.100	0.40
	Typical	5.10		0.65		
	min		2.90		2.900	0.25

TSSOP8 DIMENTIONS (mm)

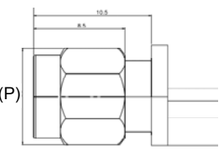
UNIT		E	E1	e	D	b
mm	max		3.10			0.38
	Typical			0.65		
	min		2.90			0.22

OUTLINE Version	REFERENCES			
	IEC	JEDEC	JEITA	
SOT505-1		MO-187 AA		
SOT505-2		MO-187 AA		

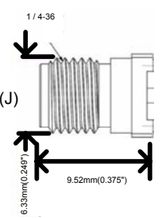
SMA:

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)

PLUG (P)



JACK (J)



Ordering INFO:

Part Number	
ZX050C-MSOP8-J	SMA Jack Connector type (**standard**)
ZX050C-MSOP8-P	SMA Plug connector type

NOTE: ZX050C-MSOP8 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) 2 2 2 – 0717
WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM).
ROHS COMPLIANT

ASSEMBLY DRAWING

ITEM: ZX050C-MSOP8-TSSOP8

DESCRIPTION: **MSOP8 (TSSOP8) characterization testing bringup breakout adapter SMA**

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