2.88"(73.15mm) ZX050C-SOT26-C (SC-74R) SOT26 Characterization testing bringup breakout module **Product Name: 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 as described below: 1- Selectable stuffing option serving any ASIC design configuration- see table on page 2 2- Two dedicated SMA connectors for each ASIC pin, U1, 1- External stimulus 2- Measurement interface, probe. 3- ZX50C-SOT26-C is designed with 50 Ω (Ohms) trace impedance using 4 layers PCB ensuring PCB+Connector insertion loss <0.3dB 4- Designed with 1oz copper ensuring today's design requirements. Please allow thermal calculations based on 1oz copper. Ideal for ASIC Integrated Circuit (IC) characterization, bringup, functional testing of ANY SOT26 (SC-74R) package such as ESD diode, MOSFET, Load Switch, LDO, and more, using SOT26 footprint package. 1.09'(27.6r Available 2 pin headers (with associated decoupling capacitor) for interfacing to any standard Power Supply (J1, J2, J3 and J4). The Capacitors, C1, C2, C3 and C4 are the headers' associated decoupling capacitors – $0.1 \mu F$ or similar. Ε 2.88"(73.15mm AGND pin of the 2 pin headers is the module's GND reference. It is connected to the module GND plane. **Application:** Bringup, Characterization, testing, development, modular design evaluations Target DUT: Designed specifically for any SOT26 (SC-74R) or similar (footprint such as SOT25) device with SMA connector accessing all pins of the DUT device. Block Diagram: Pitch: Standard SOT26 package or equivalent (SOT25) using 0.95mm pitch landing pads. See Page 2 Headers: 2 pin test point (VDD - GND) - 0.025" SQ with 0.32" (5.6mm) post height 1.09"(27.6mm **DUT landing pads:** Surface Mount, 6 pin package – see table below DIMENTIONS (mm) SMA: UNIT Impedance: 50Ω 3.20 1.70 2.50 0.970 0.560 Temp Range: -65°C +165°C max 3.00 2.40 0.950 0.550 0.80 **Typical** 1.60 Vibration: MIL-STD-202. Method 213 min 2.60 1.50 2.30 0.930 0.410 0.40 Frequency Range: DC – 12GHz Ordering INFO: Working Voltage: 335V max REFERENCES Withstand Voltage: 1000V rms **OUTLINE Version** Part Number IEC JEDEC JEITA Center Contact: $<3m\Omega$ ZX050C-SOT26-C-J SMA Jack Connector type (standard) SOT-26 SC-74R SOT26 **Outer Contact:** $<2m\Omega$ ZX050C-SOT26-C-P SMA Plug connector type Insulation resistance: ≥5000MΩ NOTE: ZX050C-SOT26-C module is shipped without DUT and VSWR Straight: $\leq 1.15 (0.8-2.5G)$ headers. All SMA connectors are installed. 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 ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ITEM: ZX050C-SOT26-C (SC-74R) SOT26 (SC-74R) characterization testing DESCRIPTION: 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, bringup breakout adapter SMA CHECKED: 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. DRAWN: REVISSION: 1.0 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 system M. MARINA SLAVIK SHEET 1 OF 2

