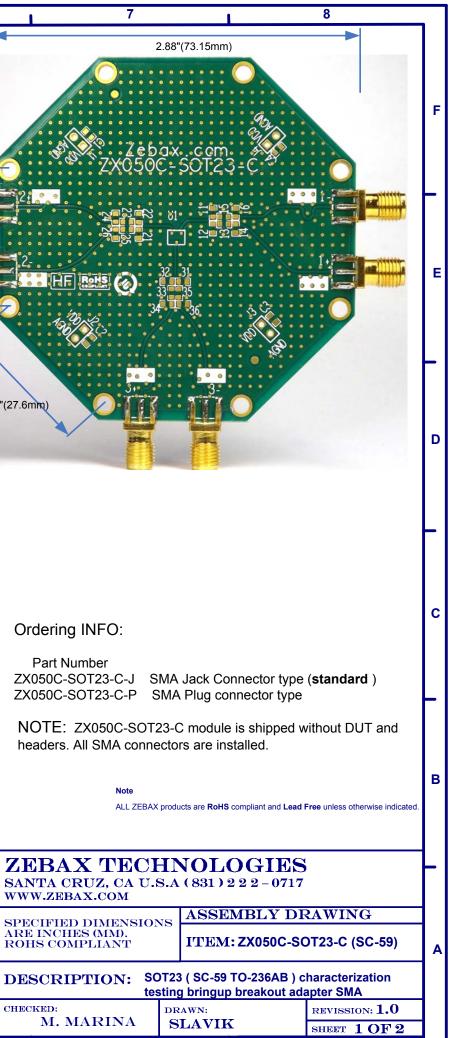
| | 1 | 2 | • | 3 | 1 | 4 | | 1 | 5 | 6 |
|---|------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|----------------------|----------------|
| | Product Name: | ZX050C-SOT23-C (| SC-59 – TO-2 | 36AB)SOT2 | 3 Character | rization testin | g bringu | p breakout ı | nodule | |
| F | Product Description: | High Speed characteriza U1, is accessible as des | ition module mee cribed below: | eting 10GHz signa | al bandwidth wi | th < 0.3dB inserti | on loss. E | ach pin of the d | evice under test- DL | ит, |
| _ | | 3- ZX50C-SOT23-C is d 4- Designed with 1oz co | connectors for ea esigned with 50 g pper ensuring too | ch ASIC pin, U1, Ω (Ohms) trace i day's design requ | 1- External stir mpedance usir irements. Pleas | nulus 2- Measur ng 4 layers PCB e se allow thermal o | ensuring Po calculations | CB+Connector i s based on 1oz | copper. | |
| Е | | Capacitors, C1, C2, C3 a | and C4 are the h | eaders' associate | d decoupling c | apacitors – 0.1 μ | F or similar | ſ. | 2, J3 and J4). The | |
| | Application: | Bringup, Characterizatio | | | | | p. | | | 2.88"(73.15mm) |
| | Target DUT : | Designed specifically for the SOT23 device. | any SOT23 (TC | 0236AB, SC-59) S | MD device with | h SMA connector | access to | all pins of | Block Diagram | 1.00"/27.62 |
| D | Pitch: | Standard SOT23 (TO-2 | 36AB SC-59) SI | MD package or e | quivalent | | | | See Page 2 | - |
| | Headers: | 2 pin test point (VDD - G | | | | | | | | |
| | DUT landing pads: | Surface Mount, 3 pin pa | ckage – Body 2.9 | JX1.3mm (Length | vviatn) or equ | livalent | | | | |
| | SMA: Impedance: 50Ω | | DIMENTION | S (mm) | | ization testing bringup breakout module th < 0.3dB insertion loss. Each pin of the device under test- DUT, able on page 2 nulus 2- Measurement interface, probe. Ig 4 layers PCB ensuring PCB+Connector insertion loss <0.3dB ie allow thermal calculations based on 1oz copper. It testing of ANY SOT23 (TO-236AB SC-59) package such as nt package. acting to any standard Power Supply (J1, J2, J3 and J4). The apacitors – 0.1 μF or similar. Sected to the module GND plane. ons n SMA connector access to all pins of Block Diagram: See Page 2 ivalent See Page 2 ivalent Cruce m 1 (1997) (27.6m 1.097) (27.6m) (27.6m 1.097) (27.6m) (27.6m) (27.6m 1.097) (27.6m) (27.6 | | | | |
| | Temp Range: -65°C + | +165°C | UNIT | C | E > | (Y | Z | | | |
| с | Frequency Range: | D-202, Method 213 DC – 12GHz | max mm Typic mir | al 2.00 | 1.35 0.8 | 80 0.900 | 2.900 | | | |
| | Working Voltage: Withstand Voltage: | 335V max 1000V rms | | | REFERENCE | | _ | | _ | |
| | Center Contact: | $\leq 3m\Omega$ | OUTLINE Versi | IEC | JEDEC JE | ITA | | i - | + | |
| | Outer Contact: Insulation resistance: | ≤2mΩ ≥5000MΩ | SOT23 | • | TO236AB SC | C-59 | z | | | |
| | VSWR Straight: | ≤1.15 (0.8-2.5G) | | | | | | + | | |
| в | | | | | | | | ← ×→ | ← E → | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | SAN |

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| Г | 1 | 1 | 2 | 3 | 4 | 1 | 5 | 6 |
|---|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|-----------|
| | Product Name: | ZX050C-SOT2 | 23-C (SC-59 – TO230 | 6AB) SOT23 Chara | cterization testing k | pringup breakout mo | odule | |
| F | DUT Application Spe | ecific Stuffing o | ptions, DASS: | | | | | |
| ľ | | Figure below outl | ines the DUT Application | Specific Stuffing, DASS, | components comprising | of six 0603 SMD package | e devices. | |
| E | | Note: 1. RCx:: 0603 SMD landing Pad. Resen | C14 VDD C14 VDD C15 VDD C12 VDD Pin1 C15 VDD C15 VD | or etc. ferred as DASS) where | | | | |
| | | "1-" is referenced to RC11 since it "1+" is referenced to RC12 since it "1+" is referenced to RC12 since it DASS: DUT Application Specific Stuffing | references to GND. t references to VDD. | | evices Low voltage devices High 0.1 μF 0 Ω 50 Ω 5 pF 1050 Ω 2K Ω g (DASS) - Must install with 0 Ω, if N | | | |
| - | | General 2pin header, description: VDD and AGND: | | | | | | R |
| D | | Available onboard standard 0.1" VDD pin is sconnected to the VDC AGND is connected to the AGND AGND is connected to the AGND Each header is accompanied by | PCB plane - 3rd laver | | | | | |
| | | | UT, supply and the GND | signal interfaces. | | | pr | |
| | DUT Pin | Stuffing options | push-pull devices | | open drain devices | | | |
| - | configuration Supply, VDD | RCx2 | Low voltage devices | High Voltage devices | _ | | | |
| | Supply, VDD Supply GND | RCx2 RCx1 | 0.1 μF 0 Ω | 0.1 μF 0 Ω | - | 0.1 μF 0 Ω | | |
| | INPUT | RCx1 | 50 Ω | 50 Ω | | 50 Ω | | |
| | | RCx1 | 5 pF | 40 pF | | 40 pF | | |
| Ľ | OUTPUT | RCx5 | 1050 Ω | 453 Ω | - | 453 Ω | | |
| с | | RCx6 | Unuse | | 2Κ Ω | 499 Ω | | |
| | Application Specific | RCx3, RCx5 | DUT Applicati | on Specific Suffing (DAS | S) - Must install with 0 | Ω, if Not used. | | |
| - | Note: Each pin of U1 ha | as identical stuffing o | ptions. RCx1 where the x | | | | | |
| в | | | | | | | | ZF |
| | | | | | | | | SAN WW |

A

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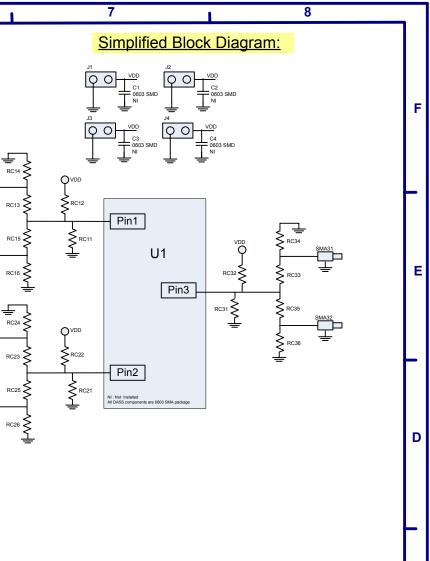
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|-----------------------------------------------------------------------------------------|------------------------------|------------------|--|--|--|
| SPECIFIED DIMENSIO | ASSEMBLY | ASSEMBLY DRAWING | | | |
| ARE INCHES (MM). ROHS COMPLIANT | ITEM: ZX050C-SOT23-C (SC-59) | | | | |
| DESCRIPTION: SOT23 (SC59 TO236AB) characterization testing bringup breakout adapter SMA | | | | | |
| CHECKED: | DRAWN: | REVISSION: 1.0 | | | |
| M. MARINA | SLAVIK | SHEET: 2 OF 2 | | | |
| 7 | | 8 | | | |