Product Name: ZX127HSEC6-42H Samtec GENERATE HSEC6 / Mini Cool Edge IO, MCIO, edge card breakout adapter - Page 2 OF 2 Ground: ZX127HSEC6-42H is 4 layers PCB design where the inner layers are Ground layers. They are connected to the GND test point as well as top & bottom GND fills. For improved signal integrity, please connect the GND test point to system GND reference point. See Cross Section diagram for details. Typical Application: ZX127HSEC6-42H is designed for purpose of test and debugging at full connector's bandwidth. It provides new approach in usage of breakout adapters by: 1- Utilizing single or differential scope probe. 2-Test and measurement, manufacturing loopback test, validation, pre-bringup applications. **Scope Probe wire Installation:** 1- It is recommended to keep the probe wire length at 0.5" (1.2cm) long. 2- In order to avoid ground loop problems, please use the shortest Ground probe wire interfacing to the nearest GND reference point. ZX127HSEC6-42H provides GND test point to be utilized as GND reference interface with host. SFF-TA-1002 1C (2 rows x 42 pins/row) 84 pins standard- Below are listed signals and Ground pins assignments for the SFF-TA-1002 standard, please refer to the standard for formal signals map naming. This table denotes "SIG" or "GND" PIN geometry locations. The Grounds are not bussed together in the connector or the ZX127HSEC6-42H breakout adapter. The listed GND signals are routed similar to the SIG signals, they are all individually routed signals. ZX127HSEC6-42H Pin Geometry Pattern (2C) SFF-TA_1002 Standard D 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 Side A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | GND SIG SIG GND SIG SIG GND SIG SIG GND SIG SIG GND SIG Side B | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 Header pin access configuration: Table below is header's pin configuration ZX127HSEC6-42H header pin assignments .12 Header pin numbers refer to the edge card connector pin numbers GND header pins are connected to top & bottom GND fill as well as the inner layers GND plane В HSEC6 / MCIO footprint: ZX127HSEC6-42H mates with industry standard footprint for SFF-TA-1002 1C (2rows x 42 pins per row) 84 pins connectors. ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indica ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ITEM: ZX127HSEC6-42H ROHS COMPLIANT DESCRIPTION: Samtec HSEC6 / Mini Cool IO , MCIO , Edge ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES. EXPRESSED. **Card Breakout Adapter** 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 CHECKED: 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. MAHIN **KADIJEH** SHEET: 2 OF 2