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Product Name: ZX114ER5-xxP Samtec ERM5 ERF5 Edge Rate rugged Breakout Adapter Signal Access & re-route: Re-routing any signal on ZX114ER5-xxP is implemented by cutting inner-connecting Shunt's trace and redirect to the new signal or test equipment. Ground: ZX114ER5-xxP 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. **ZX114ER5-xxP part numbers**: ZX114ER5-xxP is offered in 8 different models, supporting each ERM5 / ERF5 connector size. Below are each part number with associated mechanical diagram. Ε **Typical Application:** ZX114ER5-xxP 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-Enabling design changes, by re-assignment of any signal by means of cut and solder, where any signal may be cut and assigned to new location by jumper wires. **Scope Probe wire Installation:** 1- It is recommended to keep the probe wire length at 0.5" (1.2cm) long. 2- Zebax provided ZX00BC2PH1, (36AWG Bare Copper wire to pin header wire assembly) is an ideal probing wire solution where the header fits D into any single ended or differential probe. ZX00BC2PH1 2- In order to avoid ground loop problems, please use the shortest Ground probe wire interfacing to the nearest GND reference point. ZX114ER5xxP provides GND test point to be utilized as GND reference interface with host. **ZX114ER5-10P** – Two rows x 10 pins per row ERM5 – ERF5 breakout adapter, supporting ERM5-010 & ERF5-010 Samtec Edge Rate rugged connectors Samtec ERF5-010 .6mm) .56" (39.6 В 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). Samtec ERM5-010 ITEM: ZX114ER5-xxP ROHS COMPLIANT 0.78" (20mm) DESCRIPTION: Samtec Edge Rate rugged high speed ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, connector 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. MARINA **MATTHEW** SHEET: 2 OF 7

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