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Product Name: ZX122xA – PCISIG M.2 NGFF passive breakout adapter module offering all KEY type combinations, page 2 of 4 Breakout Access: All ZX122xA breakout adapters provide breakout access via onboard 0402 SMD shunts landing pads, see Figure 3. All signals are accessible on top layer of the module. Each 0402 SMD shunt package may be wired for signal measurement via scope / test equipment. Figure 3-0402 SMD ZX122xA Zebax.com Additionally; each 0402 SMD shunt package may be cut and redirected to another signal (onboard or offboard) for test and debug. shunt - not scaled Figure 4- ZX122xA in standard, Std , M.2 style M.2 receptacle ZX122xA Ground Access: ZX122xA provides exposed copper or GND test point (depending to ZX122xA model) for accessing the module's ground connector formfactor reference. The ZX122xA is 4 layers PCB design, where the 2 inner layers are used as the module's ground reference. The Ground stitching vias, the top / bottom ground fills and the inner ground planes are all interconnected, hence referred as "GND". The exposed copper or the GND test point (depending to ZX122xA model) provide access to the ZX122xA GND reference. The exposed coppers provides ease of access to ZX122xA GND reference. In order to improve signal integrity, please connect one of the exposed copper or the GND test point to your nearest system GND reference. **Key Conversion:** ZX122AEA and ZX122BMA are offered in 2 different J2 M.2 Key types. This Key conversion is ideal solution for applications requiring to interface with the listed M.2 Key application. Part number PCB Edge J2 **Description** Convert M.2 PCISIG Key E to Key A ZX122AEA-A Key A-E Key A ZX122AEA-E Key A-E Convert M.2 PCISIG Key A to Key E Key E ZX122xA Zebax.com Key B ZX122BMA-B Key B-M Convert M.2 PCISIG Key M to Key B ZX122BMA-M Key B-M Key M Convert M.2 PCISIG Key B to Key M Figure 5 – ZX122xA in Vertical mount M.2 connector formfactor Please note, the dual M.2 Key modules (such as ZX122AEA-E) have two key notches on PCB edge finger connectors (ZX122AEA-E has PCB edge D finger connector Key A and Key E). Therefore signals associated with the opposite Key type on the J2 connector will not be accessible due to dual key Figure 6 – Typical application using ZX122xA Standard formfactor Example: ZX122AEA-E Utilizes J2 M.2 connector of Key type E, therefore the "Key A" signals at J2 connector will be available at J2 connector, but they will be floating (Not connected to any signal) since the PCB Edge finger does have both A and E Key notches. ZX122xA Zebax.com Vertical M.2 connector Form Factor: ZX122xA offers few modules in Vertical formfactor. This applies only to the onboard J2 M.2 connector formfactor, PCB Edge fin see Figure 4 and 5. The Vertical M.2 receptacle formfactor enables DUT to be inserted in Vertical direction as exhibited in Figure 5. The Vertical formfactor M.2 option provides access to both sides of DUT for test & measurement as well as unleashing design space constraints. Only the -V option modules are available in the Vertical formfactor solutions. C Please see Ordering Information. NGSFF NDSFF compatibility: ZX122xA is PCISIG M.2 (NGFF) breakout adapter provides access to all PCISIG M.2 signals. There have been emerging design application solutions utilizing M.2 connector series, such as NGSFF / NF1, EDSFF and more. ZX122xA is fully compatible with these design derivatives since it provides hardware test & measurement capability without ang signal assignments. Module Insertion, Removal process: In order to avoid any mechanical stress or damage to ZX122xA. please follow the below listed guidelines for insertion and removal process: В 1- Move the Module against the housing chamber, see figure a 2- Rotate module to 25°, insert it until the module surface reaches the ramp, figure b, c 3- Rotate the module to horizontal position, see figure d Note ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated 4- Fix the module by screw, see figure e ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ITEM: ZX122xA M.2 NGFF PCISIG ROHS COMPLIANT DESCRIPTION: PCISIG M.2 NGFF passive breakout adapter ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." 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