

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. ZX114ER5CS-75 provides one GND test point to be utilized as GND reference interface with the host.
- 3- Both Keysight as well as Tektronix offer variety of single ended as well as differential probes along with their accessories, below are few probes from each vendor:
 - a) Keysight differential probe or similar N2795A, N2796A, 1168V, 1134B along with E2677B differential Solder-in probe, N5426A ZIF Tip, N2884A Fine Wire ZIF Tip and more – See the figure "probe head accessories".
 - b) Tektronix offers several single-ended as well as differential probes such as: P6245, P6248, P6247, P6246 or any of TDP7000 series and more
 - 4- Please follow your vendor's guideline in installation of probe wires & accessories.

Signal Access & re-route:

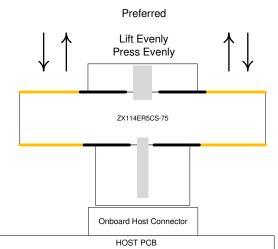
Re-routing any signal on ZX114ER5CS-75 may be implemented by cutting the trace min. of 30 mils (0.8mm) before end of the trace on top or bottom side of the PCB. The Via (inner connecting via) at end of the trace connects the top layer's signal (trace) to bottom layer's signal (trace). The inner connecting via may not be visible on most of Zebax designs. The via has clearance of 30mils from end of the trace.

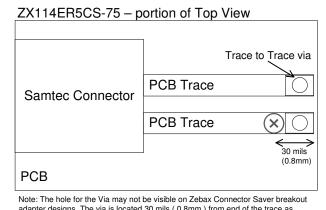
ZX114ER5CS-75 module is 4 layers PCB where the inner layers are Ground layers. They are connected to the GND test point. For improved signal integrity, please connect the GND test point to system GND reference point. See Cross Section View figure on Page 1 for details.

Mating and Un-mating:

Uneven or off—angle forces during mating and un-mating of ZX114ER5CS-75 from host or daughter card may cause overstress and damage to the contacts, housing or solder joints. Severe side-to-side rocking motions should be prohibited.

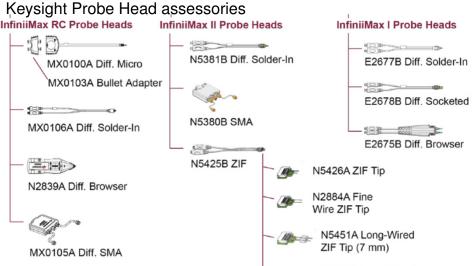
Un-mate ZX114ER5CS-75 by lifting one end of the connector (peeling) is permitted. However, this should only be done to initiate separation of the mated contacts at one end of the interfaced connector. The separation angle should be kept as low as possible as the contacts continue to un-mate, thereby spreading out the un-mating forces over the length of the interface connectors. The connectors should not be "peeled" beyond a 20° angle. See Figure below.





adapter designs. The via is located 30 mils (0.8mm) from end of the trace as





Note: ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated. N5451A Long-Wired ZIF Tip (11 mm)

ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ITEM: ZX114ER5CS-75 ROHS COMPLIANT Samtec Connector Saver - breakout **DESCRIPTION:**

adapter ERM5 ERF5

CHECKED: M. MARINA

MATTHEW

ZX114ER5CS-75 bottom View

Ε

D

C

Zebax.com

REVISION: 1.0 SHEET: 2 OF 2

 (\mathbf{x}) Ideal location to cut the trace

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 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 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