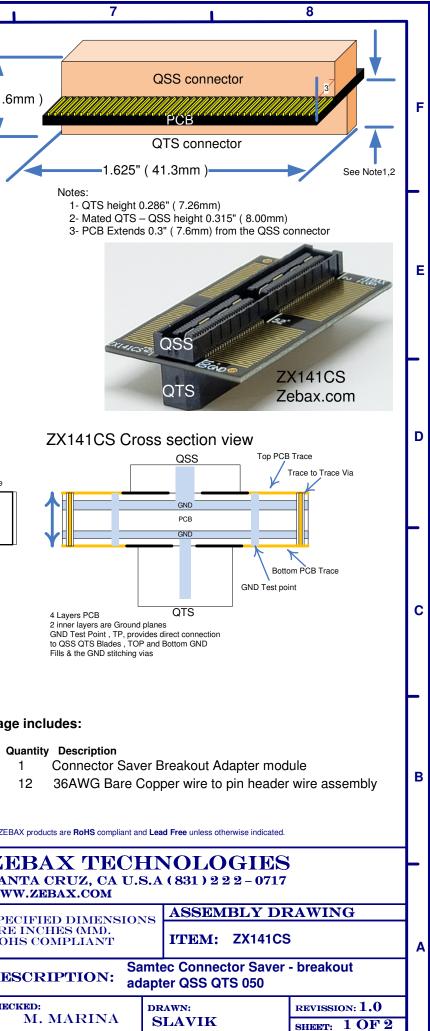
| | 1 | | 2 | 1 | 3 | 1 | 4 | 1 | 5 | 1 | 6 | 1 |
|------------------------|--|-----------------------|--|---|--|---------------------------------------|--|--|---|--|--------------------|--------------------|
| ſ | | | | | | | | - | 4/2 | | | _ |
| Product Name: | | | ZX141CS Samtec Connector Saver - Breakout Adapter QSS – QTS 050 (DP -032) – Page 1/2 | | | | | | | | | |
| F Product Description: | | | 50pins x 2 rows, 100 pins Samtec Connector Saver - breakout adapter. Offering both QSS and QTS connectors on connector saver module with debug 0.3" (11 access point providing full feature breakout adapter. | | | | | | | | | (11.6n |
| | | | 1- Each QSS signal is routed to 2- All signals have 0.3" (7.6mr 3- All traces have 10mils (0.26 4- All traces are designed 50 C | n) trace length on imm) width, enabl | both top and bot ing soldering of a | tom layers of the | PCB. | | | inector. | | |
| | | | 5- Four, 4, layers PCB design,6- Two accessible GND test pc7- Offering Extended height QT | inner layers are G bints, The test poin IS connector (0.26 | ND planes with o ts are connected 86" – 7.26mm) , | to module GND providing interfa |) planes. | | nts. | | | |
| E | | | 8- Mated QSS-QTS (Host with 9- Ease of interface with single 10- User may relocate any QTS 11- Fully compatible with Single | channel and diffe S signal by cutting | rential scope pro trace before the | bes. via and solder to | | | | s: SOCD | | |
| _ | | | 12- Mates with any height and 13 – Accessible GND test point 14- The module is shipped with | formfactor QSS Q t with direct interfa | TS connector se ice to the integra | ries such as -DP I metal plane (G | P, -RA, -EM, -DP-R iND blade) | | | o, oqob . | | |
| D | Electrical: | Trace im Operating | loss -2dB @8GHz npedance: 50 Ω ng Temperature: -55 ℃ to +125 ℃ | | | | | ZX141CS - Simplified Circuit Diagram | | | | |
| | | Trace to Trace Le | dth: 10mils (0.26mm) Trace Spacing: 15mils (0.381m ngth: 0.3" (7.6mm) Trace via: 30mils (0.8mm) from | | | | | | | QSS | ΤΡ 50 Ω | Trace |
| | Application: | 36AWG I | arance: 8mm from Host PCB (Bare copper wire: 0.014mm dia turing test and re-use, bringup, t | ameter - See pack | 0 | details | | | PCB 50 Ω Trace | | 50 Ω | Trace |
| C | Mates with : | Any heig | ht and formfactor of Samtec QT ble with – differential Pair (DP), | rs050 QSS050 Q | SS032(DP) QTS | . , | • | se immunity. | | QTS 50 Ω impedance t, has direct connection to Q s , the TOP & Bottom GND f | | |
| | Pitch: | Samtec (| QSS QTS connector 0.6350mm | (0.050") High Spe | eed connector | | | | Stitering vides | | | |
| | | | Please see Page 2 for m | nore details. | | | ISO | mpliance: 2001 certified Is - Lead Free | | | X141CS pa | nckage Qu |
| в | | | | | | | UL E ELV Euro | opean Union Dir | ive(Directive 2000 ective(203/11/EC | Z 0/EC)) | X141CS X00BC2PH | 11 Note |
| | | | | | | | RoH | Is Directive 201 EE Directive (20 | | JU3 | | ALL ZEBA |
| | | | | | | | Cert | ificate of Compl | iance for Radioact iance for Asbestos iance for Ozone D | 6 | ces, ODS | SAN WWV SPEC |
| A | Notice | | | | | | Cert | tificate REACH S | | | | ROH |
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| | 1 | 2 | 3 | 4 | 5 | | 6 | | |
|---|---|---|--|-------------------------|----------------|----------|----------------------------------|--|--|
| | Product Name: ZX1 | 141CS Samtec Connector Sav | ver - Breakout Adapter Q | 3S – QTS 050 (DP -03 | 2) – Page 2/2 | | | | |
| | Access: For signal me For signal relo | ocation: 1- Cut the trace to the | Jse 36AWG solid copper wire with connecting via (30 mils [0.8mm copper wire, make the required c |] before end of trace) | | | °51 | | |
| Е | new 1- Utilizing sin 2-Enabling de | 41CS is designed for purpose of test approach in usage of breakout adapt ngle or differential scope probe. esign changes, by re-assignment of an d to new location by jumper wires. | ers by : | | pe cut | | | | |
| | Scope Probe wire Installa | tion: | | | | | ZX141CS Top | | |
| | | mended to keep the probe wire length | | | | | | | |
| | 2- In order to avoid ground loop problems, please use the shortest Ground probe wire interfacing to the nearest GND reference. ZX141CS provides two GND test points for reference. 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: | | | | | | | | |
| D | 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. | | | | | | | | |
| – c | Signal Access & re-route: Any signal re- on top or botto to bottom laye 30mils from en | gnal (trace) | MX0106A Diff. Solder-In N2839A Diff. Browser | N5380B SMA | | | | | |
| | ZX141CS mod blade. Please | ground power | MX0105A Diff. SMA | - | | | | | |
| 11 | | ZX141CS – portion of | Top View | | | | | | |
| в | | Samtec Connector | Trace to Trace via PCB Trace PCB Trace | | | | Note ALL ZEB/ | | |
| | | | 30 mils (0.8mm) | | | | ZE | | |
| Α | | | e visible on Zebax Connector Saver breakout 30 mils (0.8mm) from end of the trace as | | | | SAN WWW SPEC ARE ROH | | |
| | | | (TOOFTHED AND OFDADATELY #1077700 200 - | | | | DES | | |
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| | 1 | 2 | 3 | 4 | 5 | <u> </u> | 6 | | |

