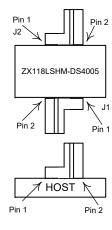
Product Name: ZX118LSHM-DS40 Samtec Breakout Adapter Rugged Hermaphroditic Razor Beam - Page 2 of 3

LSHM Hermaphroditic connector mating configuration: LSHM connector is Hermaphroditic, self mating connector series, therefore ZX118LSHM-DS40 module would be transparent to any design using LSHM -DV or -DH connector series. Please see figure 2.1 exhibiting "Mated pin configuration details". ZX118LSHM-DS40 utilizes LSHM-DH connector series where the J1 LSHM connector pin 1 is connected to the J2 LSHM connector pin 2. When the ZX118LSHM-DS40 is mated with Host & Target (Host & Target using -DV or -DH connector series), it would be transparent since the ZX118LSHM-DS40 does pin swapping between the onboard LSHM connectors. If using LSHM-RH connector series, please use figure 2.2 as reference identifying pin numbering on your host & target.

Figure 2.1: ZX118LSHM-DS40 mated pin configuration details

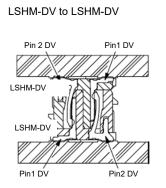


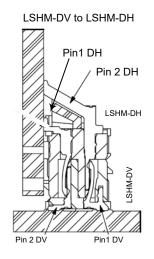
Mating configuration is with LSHM-DV on HOST

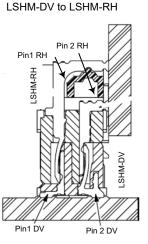
ZX118LSHM-DS40 Pin numbering: The listed Shunts pin numbering are listed as reference to the host LSHM connector. Since the ZX118LSHM-DS40 would be transparent to user (see "LSHM Hermaphroditic connector mating configuration" section above) the LSHM connector's pin numbers would be identical to the host LSHM connector pin numbers as seen from ZX118LSHM-DS40's J2 connector. Special care must be given if special rework required between the J1 & J2 LSHM connectors pins as the pin 1, 3, 5, 7, 9, .. of J1 LSHM connector are connected to pin 2, 4, 6, 8, 10, .. of the J2 LSHM connector.

Mated Pin Details: Figure 2.2 exhibits LSHM connector family mated pin interface. -DV connectors are Straight, -DH connector series are Right Angle and the -RH are Reverse Right Angle connectors. All LSHM connector series mate with each other. However; attention must be paid to pin to pin interface ensuring expected design interface configuration. Below diagrams are provided as standard pin to pin interface configuration using LSHM Hermaphroditic connector series.

Figure 2.2 – LSHM Mated Pin Details – LSHM connector formactors are: -DV Straight , -DH : Right Angle , -RH : Reverse Right Angle







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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT

ASSEMBLY DRAWING ITEM: ZX118LSHM-DS40

DESCRIPTION: Samtec rugged LSHM Hermaphroditic

Razor Beam Breakout Adapter

CHECKED:

DRAWN: M. MAHIN

REVISSION: 1.0

KADIJEH SHEET: 2 OF 3

