

**BOARD ROUTING RECOMMENDATIONS** 

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## DDR4 DIMM THROUGH-HOLE CONNECTOR BOARD ROUTING RECOMMENDATIONS

#### 1.0 SCOPE

This specification covers the high-speed PCB routing recommendations of DQ and DQS signals for 151105 miniDIMM connector. The connector is surface mount type. The pins of the connector are soldered for mechanical retention to the PC board.

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FIGURE 1

### 2.0 PC BOARD REQUIREMENTS

#### 2.1 MATERIAL THICKNESS

The recommended PC board thickness shall be 1.57mm to 3.18mm. Suitable PC board material shall be glass epoxy (FR-4).

### 2.2 LAYOUT

The holes for the connector assembly must be precisely located to ensure proper placement and optimum performance of the connector assembly. Refer to the applicable Sales Drawing for the recommended hole pattern, dimensions and tolerances.

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# **DDR4 DIMM THROUGH-HOLE CONNECTOR**

**BOARD ROUTING RECOMMENDATIONS** 

#### 3.4 SKEW COMPENSATION



PREFERRED

NOT RECOMMENDED

It is recommended that skew compensation be distributed verses grouped in one or more locations. This applies for both intra skew compensation of each DQS pair and inter skew compensation between all DQ and DQS within the same data lane group.

#### 3.5 TRACE COMPARISON FOR DIFFERENTIAL SIGNALING

