2-by-1 QSFP-DD Insertion Tool	**molex®** **Application Tooling Specification Sheet**	
		Order No. 200214-1183
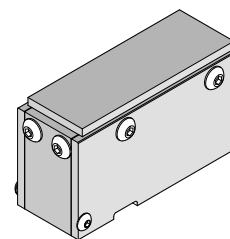
FEATURES

- Lightweight tool used in the insertion of a QSFP-DD connector in a PCB
- Inserts connector to a PCB without damage to the board

SCOPE

<u>Products</u>: Quad Small Form-factor Pluggable QSFP-DD Cage Assembly, 2-by 1 Multi-Port Connector, 2 Press Fit Rear Legs, Elastomeric Gasket for SAN Applications.

Series No.	Connector Order No.
173604	173604-0001

Notes:
1. See the following pages for tooling operation instructions.
2. These tools require a "Keep Out Zone" around the connector free of components. The rear of the connector should be .197" (5.0mm). The right and left sides should be .14" (3.5mm). See Figure 1.
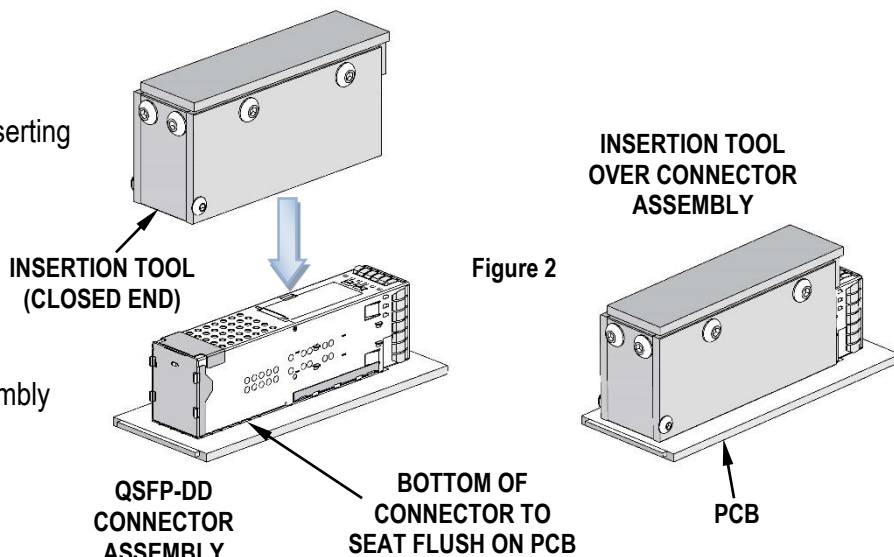

QSFP-DD CONNECTOR ASSEMBLY

5.0mm MINIMUM

3.5mm MINIMUM (BOTH SIDES)
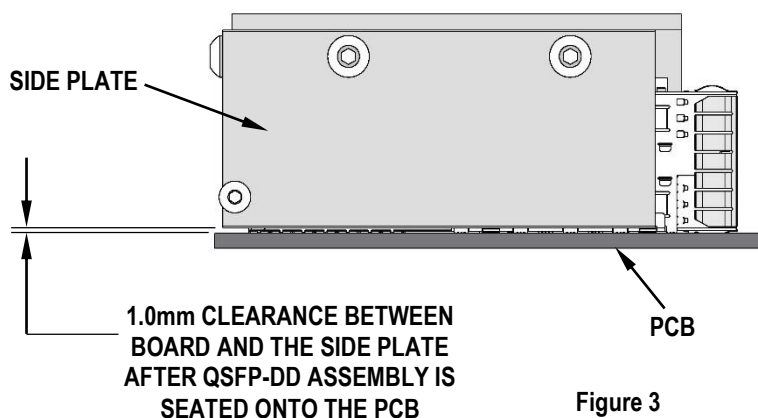
PCB

KEEP OUT ZONE
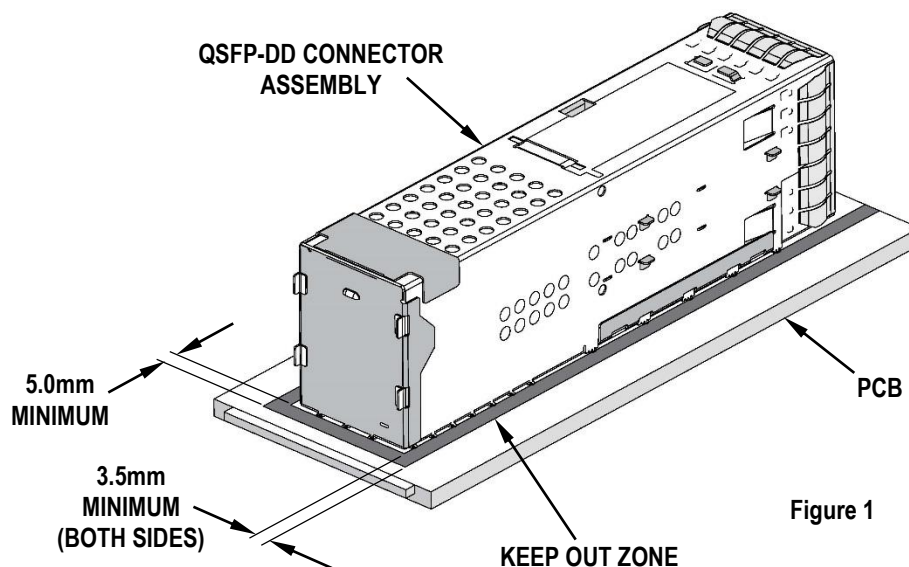
Figure 1

Description

The following instructions are used for inserting the 2 by 1 connector into a PCB.

Operation

1. Place a connector assembly on the PCB.
2. Place the tool on the connector assembly (closed end to the back end of the connector). See Figure 2.
3. Place tool, connector, and PCB, in a press of suitable size and force, and seat the connector assembly as shown.

INSERTION TOOL (CLOSED END)

QSFP-DD CONNECTOR ASSEMBLY

BOTTOM OF CONNECTOR TO SEAT FLUSH ON PCB

Figure 2

INSERTION TOOL OVER CONNECTOR ASSEMBLY

PCB

The support plate (furnished by the customer) under the PCB must have clearance for the connector pins as they pass through the PCB.

SIDE PLATE

1.0mm CLEARANCE BETWEEN BOARD AND THE SIDE PLATE AFTER QSFP-DD ASSEMBLY IS SEATED ONTO THE PCB

PCB

Figure 3

Clearance

Use this tool only with a press that has a predetermined shut height when seating a QSFP-DD assembly on a PCB. See figure 3. Allowing the press-in tool to stop on the board will result in damage the QSFP-DD cage and terminals being overseated.

CAUTION: Molex application tooling specifications are valid only when used with Molex connectors and tooling.

Application Tooling Support

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