In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Note 1. All lead co-planarity will be 0.1mm max.
- HRS mark and cavity No. are indicated at approximate location.
- Gate position is indicated at approximate location.
- Please use the specified dimension between PCBs.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Notes:
6. 1000 connectors per reel.
7. The dimensions in parentheses are only for reference.
8. Refer to IEC 60288-3 (Packaging of Components for Automatic Handling)
9. The reinforcing collar is wrapped around the emboss tapes and taped down at the end of the collar.
10. Product reeds and packaging will be clearly labeled with the part number, lot number and quantity.

The position between the connector and pad

**CAUTION FOR SOLDERING**

There is metal exposure area bottom of the connector to avoid solder wicking from the bottom side. Please design PCB pad and stencil with recommended dimensions.

**MATING METHOD**

Please mate the connector by hand.

**MATING PROCEDURE**

(1) Find the alignment area to the connector in the appropriate mating position.

This connector has an alignment guide (positioning ring) on receptacle side and pin on plug side, so that the connector will be self-aligned.

When the connector comes to the appropriate position, the connector snaps into the aligned position. When aligned, it can be felt by hand.

Finding

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(2) When guiding, the connectors are aligned parallel to each other, with longitudinal and lateral movements restricted. Mate them properly by applying force in this condition.

(3) Make sure the connectors are mated correctly. If side is floating or the connectors are mated in one direction, un-mate them once, and then mate them again, following the procedures above from the beginning.

**UN-MATING METHOD**

Please un-mate the connector by hand.

(1) Un-mate the connectors parallel to each other. However, if the connectors have high pin counts or thinner FPC and stiffener, it becomes more difficult to do so.

(2) If the connector cannot be un-mated parallel, it can be removed diagonally from the pitch direction. Be careful to do so since this action applies stress on the contact.

(3) If the FPC is not rigid, the connector can be broken. Please check the action of the FPC to be used repeatedly at the time of trial production. Be careful to un-mate them from the pitch direction. Pulling it from the corner can also rise to putting stress on contacts.

(4) Caution for using multiple connectors.

Please avoid using more than a single mated pair of connectors between two sandwiched PCBs. Like the picture on the below, due to possible misalignment, connector bents/angle while and after mating may occur.

**HRS DRAWING FOR REFERENCE**