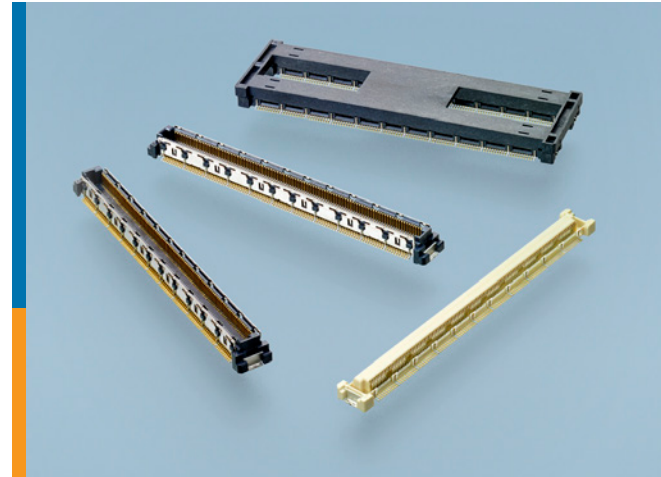


# .5MM FREE HEIGHT CONNECTORS

Two-Piece, Open Pin Field Connectors Designed For Parallel Stacking Board-to-Board Applications



Free height connectors are two-piece, open pin field connectors designed for use in parallel stacking board-to-board applications. The free height connector grouping consists of vertical board-mount receptacles and plug assemblies. TE Connectivity (TE) offers these connectors in various combinations of plug and receptacle height, providing design flexibility with the ability to vary the spacing between parallel boards. The .5mm free height connector features a range of position sizes and are packaged for easy assembly.

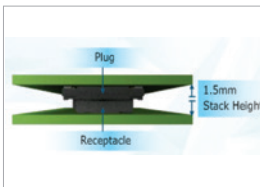
## INTRODUCTION TO THE .5MM FREE HEIGHT CONNECTOR

The PICMG COM Express standard specifies .5mm free height as the module-to-carrier card interface.



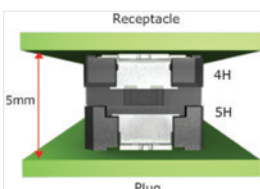
### PITCH

Pitch refers to the spacing between pin or receptacle centerlines.



### STACKING HEIGHTS

.5mm: 5mm, 6mm, 8mm



### POSITIONS

.5mm: 220, 240, and 440 positions

## FEATURES

- Allows for high pin counts in a small footprint to save PC board real estate
- Available in 220, 240, and 440 position configurations
- Offered in a variety of stacking heights, ranging from 5mm to 8mm
- Available on tape-and-reel packaging for lead protection and automated placement
- Compatible with standard pick-and-place vacuum nozzles
- Available with UL and RoHS compliant parts

## APPLICATIONS

- Home security devices
- Consumer electronics
- Data storage devices
- Telecommunications
- Automotive dashboard controls
- Customized PC boards
- Industrial computing devices
- Anywhere high-density stacking is desired

# .5MM FREE HEIGHT CONNECTORS

## .5MM FREE HEIGHT PART NUMBER SELECTION GUIDE

|            |              |   | PLUG |             |             |             |              |              |             |               |             |               |              |
|------------|--------------|---|------|-------------|-------------|-------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------|
|            |              |   | PN   | 3-1827253-6 | 3-1827233-6 | 3-5353652-6 | 9-1939756-6# | 3-1939756-6* | 3-6318491-6 | 3-2040713-6*# | 8-6318491-6 | 9-6318491-6*# | 3-5353614-7# |
|            |              |   | H    | 5           | 5           | 8           | 8            | 8            | 8           | 8             | 8           | 8             | 6            |
| RECEPTACLE | PN           | H | Pos  | 220         | 440         | 440         | 220          | 220          | 220         | 220           | 220         | 220           | 240          |
|            | 3-6318490-6  | 4 | 220  | 5           |             |             | 8            | 8            | 8           |               |             | 8             |              |
|            | 3-1827231-6  | 4 | 440  |             | 5           | 8           |              |              |             |               |             |               |              |
|            | 3-1939755-6* | 4 | 220  | 5           |             |             | 8            | 8            | 8           |               |             | 8             |              |
|            | 6-5353606-6# | 4 | 220  | 5           |             |             | 8            | 8            | 8           | 8             | 8           | 8             |              |
|            | 3-5353606-7  | 4 | 240  |             |             |             |              |              |             |               |             |               | 6            |

\* 30u" gold plating on contact interface

# with a pickup cap

Stack Height

### FOR MORE INFORMATION:

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For other country numbers, go to [te.com/supportcenter](http://te.com/supportcenter)

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