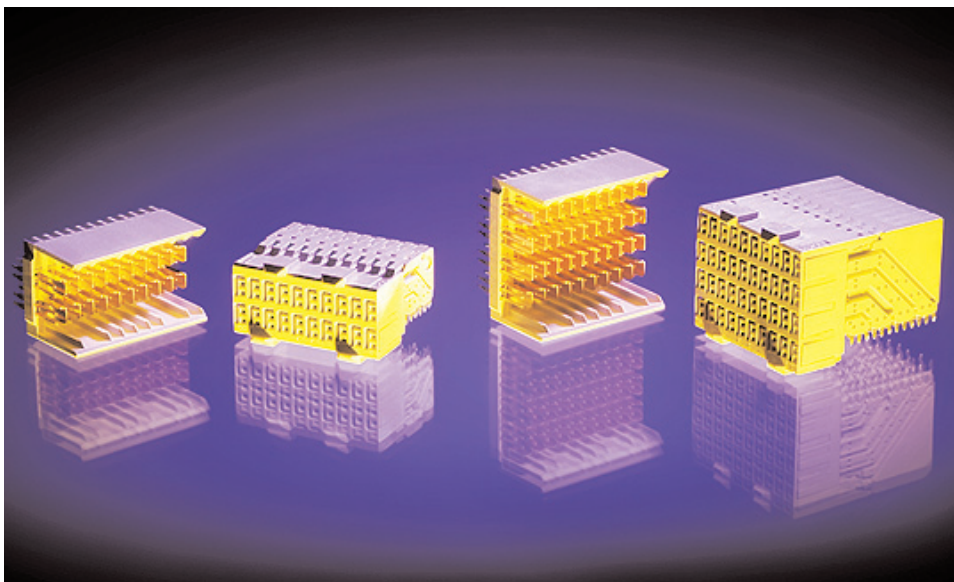


## Product Facts

- Z-PACK HM-Zd is an extension of the Z-PACK 2mm HM product line
- Designed specifically for high speed differential applications
- A modular connector system with a standard module size of 25mm
- Contact pitch is 1.5mm within a pair and 3.0mm pair to pair within a column; column to column pitch is 2.5mm
- Card Pitch is less than 0.8 inch for 2 pair headers and 1.0 inch for 4 pair headers
- Available in two versions:
  - 2 signal contact pairs per column (20 pairs per 25mm) compatible with 5 row Z-PACK 2mm HM
  - 4 signal contact pairs per column (40 pairs per 25mm) compatible with 8 row Z-PACK 2mm HM
- Available in vertical press fit pin headers and right angle press fit receptacles
- Optimized footprint for improved electrical performance and ease of trace routing (unobstructed routing channels on both daughtercard and backplane)
- Pin header and receptacle have the exact same footprint to simplify PC board layout
- Designed to meet Telcordia requirements



Z-PACK HM-Zd is a high speed, differential connector system, which is compatible with the Z-PACK 2mm HM connector line. Z-PACK HM-Zd provides Z-PACK 2mm HM users with a migration path for serial switching applications from 3.125Gbps to 6.4Gbps. Z-PACK HM-Zd has also been demonstrated at 10Gbps data rates using SerDes technology.

The Z-PACK HM-Zd connector system features a highly reliable dual beam contact system with fully encompassing grounds dedicated to each differential pair. In addition, the Z-PACK HM-Zd footprint is optimized for both routability and system performance with the use of a 1.5mm x 2.5mm row to column grid. The connector design also features a robust mating interface with integral pre alignment and polarization built into the mating interface.

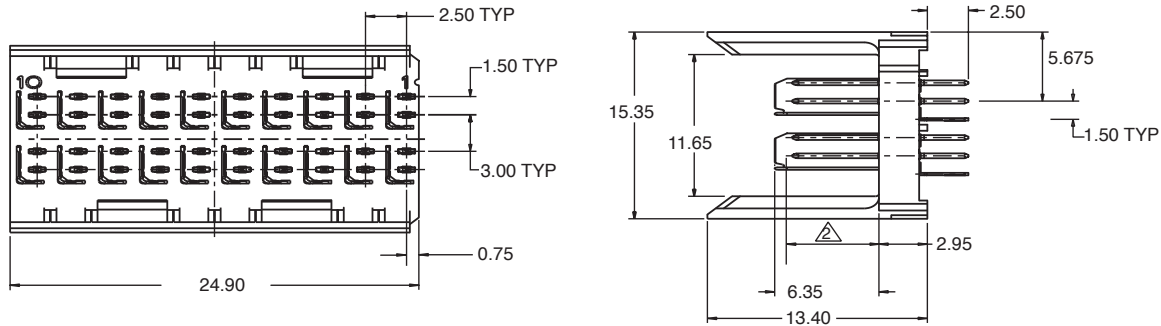
## Availability

- Fully validated SPICE models: E-mail requests to [modeling@tycoelectronics.com](mailto:modeling@tycoelectronics.com)
- Samples: go to <http://amp.custhelp.com>
- Pro/E models and IGES models: E-mail requests to [ampmodels@tycoelectronics.com](mailto:ampmodels@tycoelectronics.com)
- White Papers:
  - Electrical Performance Report: [http://www.amp.com/simulation/files/papers/20GC014\\_RevB.pdf](http://www.amp.com/simulation/files/papers/20GC014_RevB.pdf)
  - Routing guide: [http://www.amp.com/simulation/files/papers/20GC015\\_1\\_RevA.pdf](http://www.amp.com/simulation/files/papers/20GC015_1_RevA.pdf)

<http://hmzd.tycoelectronics.com>

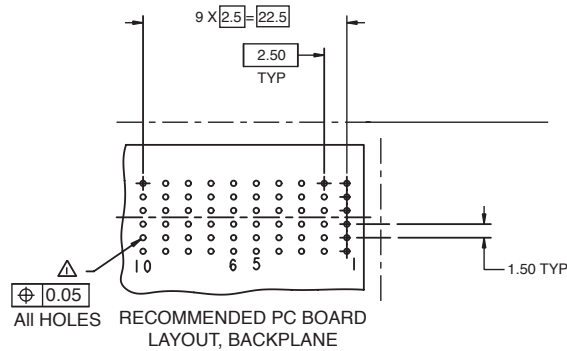
**2 Pair 10 Column Assembly**

Part Number	PIN Length $\Delta$
1469025-1	5.30
1469025-2	3.80



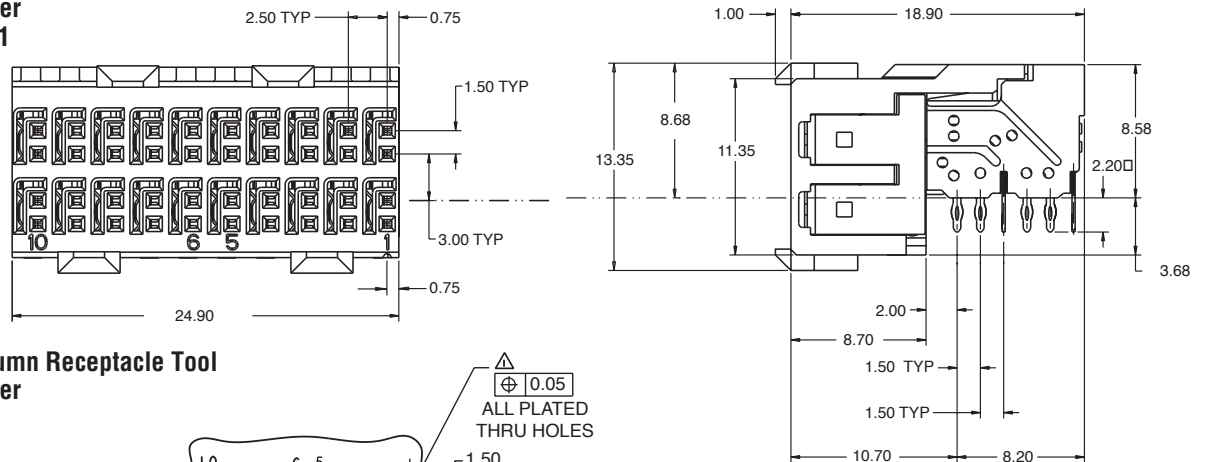
**2 Pair 10 Header Insertion Tool**

Part Number  
91348-1



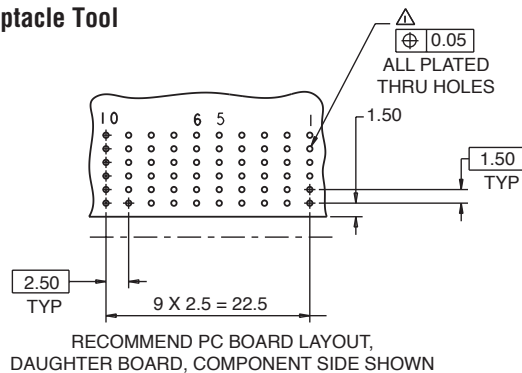
**2 Pair 10 Column Receptacle Assembly**

Part Number  
1469028-1



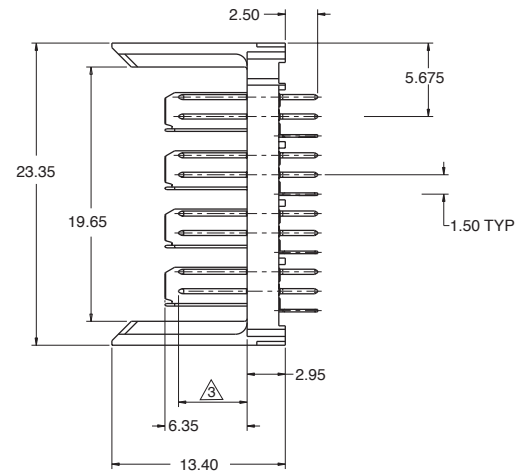
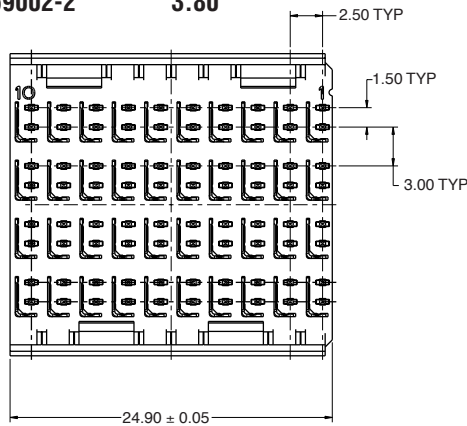
**2 Pair 10 Column Receptacle Tool**

Part Number  
91350-1



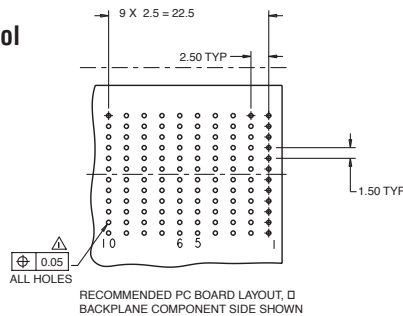
#### 4 Pair 10 Column Assembly

Part Number	PIN Length
1469002-1	5.30
1469002-2	3.80



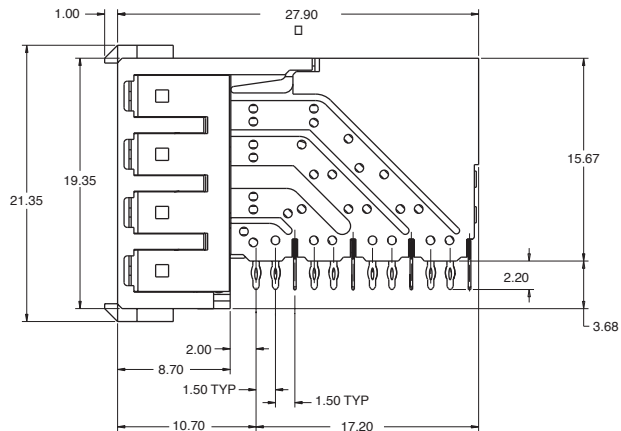
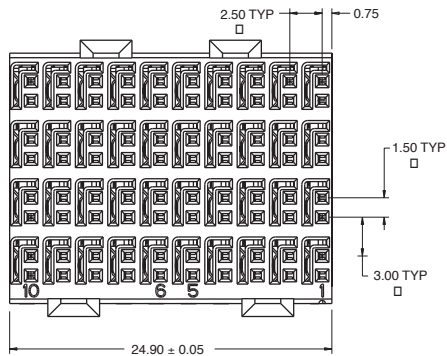
#### 4 Pair 10 Column Header Insertion Tool

Part Number
91349-1



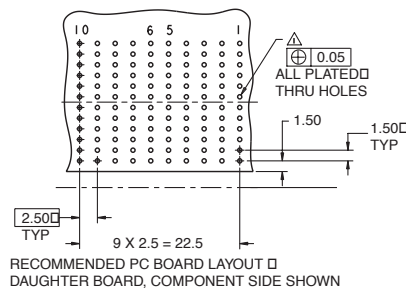
#### 4 Pair 10 Column Receptacle Assembly

Part Number
1469001-1



#### 4 Pair 10 Column Receptacle Insertion Tool

Part Number
91347-1



△ PCB HOLE DIM.  
DRILLED HOLE = 0.7000±0.025mm  
FINISHED HOLE = 0.60±0.05mm  
Cu - THICKNESS = 0.375±0.0125mm  
SnPb THICKNESS = 0.007±0.003mm