

# 3M™ HDC Socket

.100" Vertical Mount, PCB/Backplane, Solder Tail or Press-Fit

HDC Series



- Ideal for parallel four-row PCB stacking
- Press-Fit tail requires only flat push tool for installation
- Mates with four-row single-bay headers and plugs
- Optional feed-through tails
- RoHS\* compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: May 14, 2013

TS-1138-E  
Sheet 1 of 3

---

## Physical

### Insulation:

Material: Glass Filled Thermoplastic (LCP)

Flammability: UL 94V-0

Color: Black

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50  $\mu$ " [ 1.27  $\mu$ m ] min. Nickel

Wiping Area: See Ordering Information

Termination Area: See Ordering Information

**Marking:** Part Number and Date Code

---

## Electrical

**Current Rating:** 3.0 A

**Insulation Resistance:** 1 x 10<sup>3</sup> M  $\Omega$  min. at 500 V<sub>DC</sub>

**Withstanding Voltage:** 900 V<sub>AC</sub> for 1 minute

---

## Environmental

**Temperature Rating:** -55°C to +105°C

**Process Rating:** Maximum 260°C (per J-STD-020C)

**Moisture Sensitivity Level:** 1 (per J-STD-020C)

UL File No.: E68080



Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

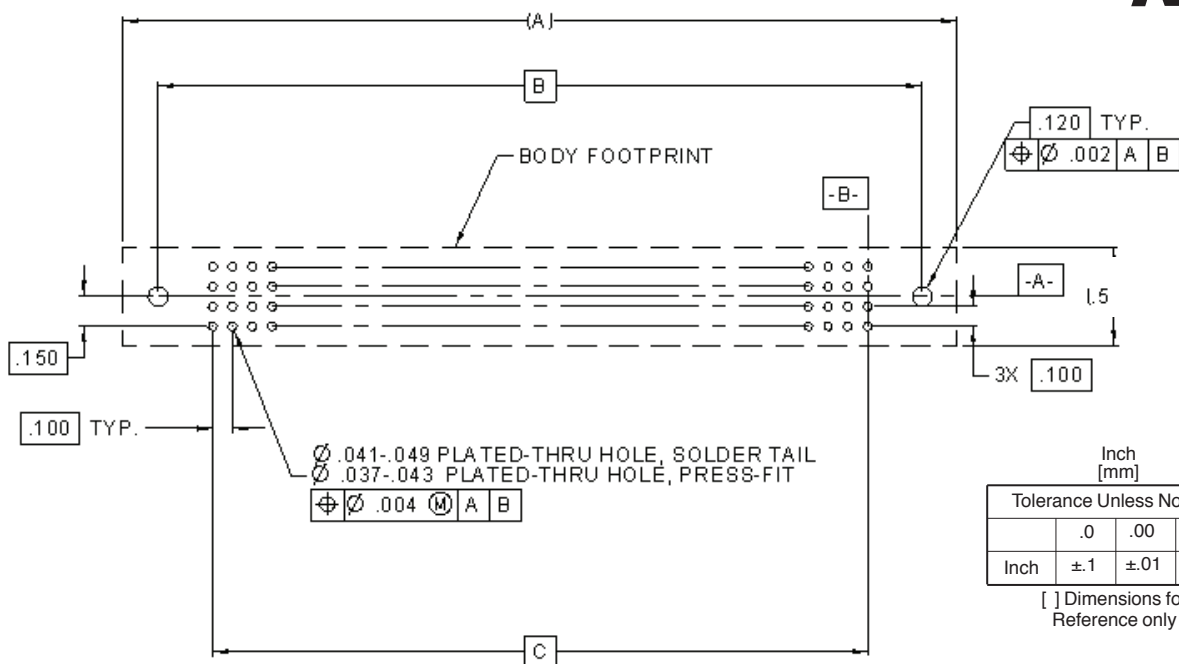
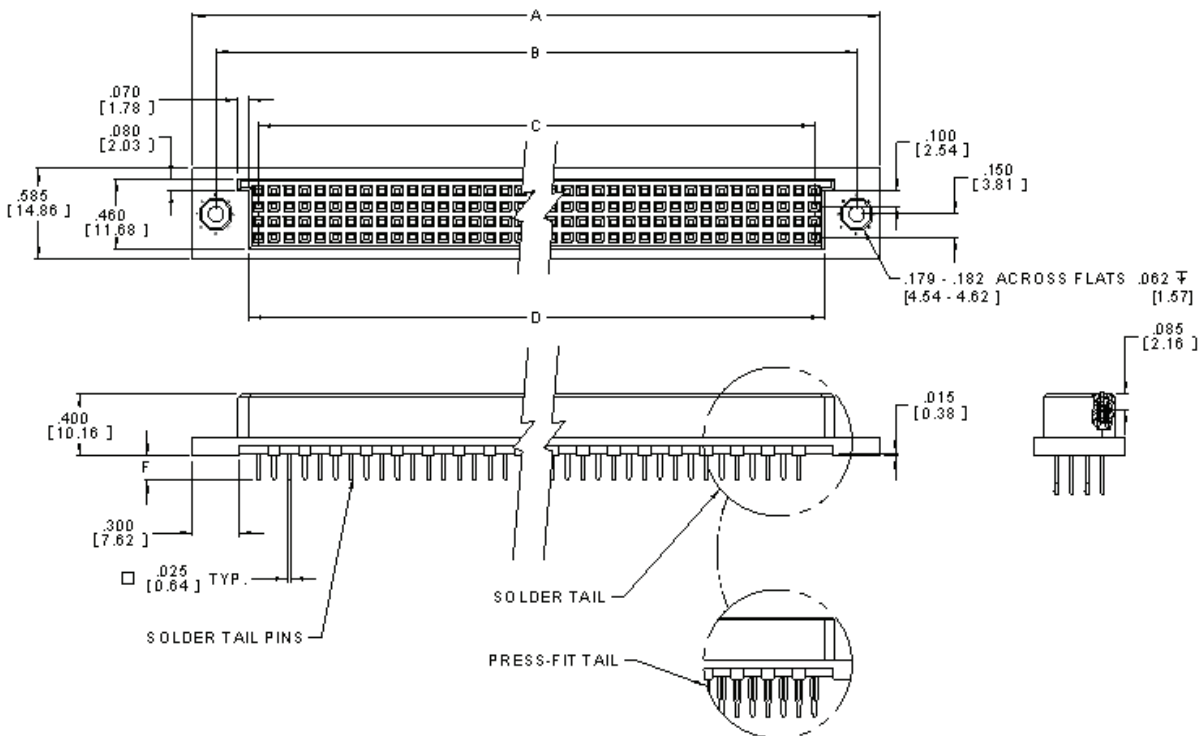
3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ HDC Socket

.100" Vertical Mount, PCB/Backplane, Solder Tail or Press-Fit

HDC Series

## 4-Row Single Bay



TS-1138-E  
Sheet 2 of 3

# 3M™ HDC Socket

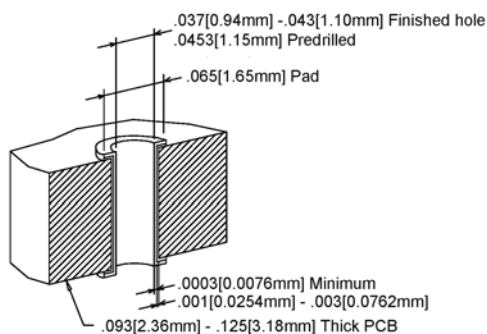
.100" Vertical Mount, PCB/Backplane, Solder Tail or Press-Fit

HDC Series

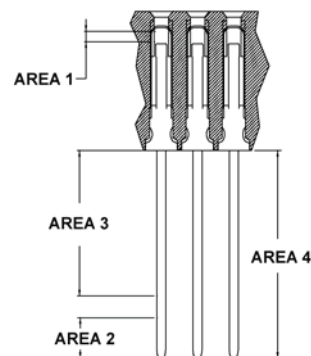
Product Table/Dimensions for 4-Row, Single Bay

| Description        | Contact Quantity | A                 | B                 | C                 | D                 |
|--------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| HDC-R060-41XX-XXXX | 60               | 2.250<br>[57.15]  | 1.950<br>[49.53]  | 1.400<br>[35.56]  | 1.524<br>[38.71]  |
| HDC-R076-41XX-XXXX | 76               | 2.650<br>[67.31]  | 2.350<br>[59.69]  | 1.800<br>[45.72]  | 1.924<br>[48.87]  |
| HDC-R080-41XX-XXXX | 80               | 2.750<br>[69.85]  | 2.450<br>[62.23]  | 1.900<br>[48.26]  | 2.024<br>[51.41]  |
| HDC-R100-41XX-XXXX | 100              | 3.250<br>[82.55]  | 2.950<br>[74.93]  | 2.400<br>[60.96]  | 2.524<br>[64.11]  |
| HDC-R120-41XX-XXXX | 120              | 3.750<br>[95.25]  | 3.450<br>[87.63]  | 2.900<br>[73.66]  | 3.024<br>[76.81]  |
| HDC-R128-41XX-XXXX | 128              | 3.950<br>[100.33] | 3.650<br>[92.71]  | 3.100<br>[78.74]  | 3.224<br>[81.89]  |
| HDC-R140-41XX-XXXX | 140              | 4.250<br>[107.95] | 3.950<br>[100.33] | 3.400<br>[86.36]  | 3.524<br>[89.51]  |
| HDC-R160-41XX-XXXX | 160              | 4.750<br>[120.65] | 4.450<br>[113.03] | 3.900<br>[99.06]  | 4.024<br>[102.21] |
| HDC-R168-41XX-XXXX | 168              | 4.950<br>[125.73] | 4.650<br>[118.11] | 4.100<br>[104.14] | 4.224<br>[107.29] |

| Description        | Contact Quantity | A                 | B                 | C                 | D                 |
|--------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| HDC-R180-41XX-XXXX | 180              | 5.250<br>[133.35] | 4.950<br>[125.73] | 4.400<br>[111.76] | 4.524<br>[114.91] |
| HDC-R200-41XX-XXXX | 200              | 5.750<br>[146.05] | 5.450<br>[138.43] | 4.900<br>[124.46] | 5.024<br>[127.61] |
| HDC-R216-41XX-XXXX | 216              | 6.150<br>[156.21] | 5.850<br>[148.59] | 5.300<br>[134.62] | 5.424<br>[137.77] |
| HDC-R220-41XX-XXXX | 220              | 6.250<br>[158.75] | 5.950<br>[151.13] | 5.400<br>[137.16] | 5.524<br>[140.31] |
| HDC-R240-41XX-XXXX | 240              | 6.750<br>[171.45] | 6.450<br>[163.83] | 5.900<br>[149.86] | 6.024<br>[153.01] |
| HDC-R260-41XX-XXXX | 260              | 7.250<br>[184.15] | 6.950<br>[176.53] | 6.400<br>[162.56] | 6.524<br>[165.71] |
| HDC-R280-41XX-XXXX | 280              | 7.750<br>[196.85] | 7.450<br>[189.23] | 6.900<br>[175.26] | 7.024<br>[178.41] |
| HDC-R300-41XX-XXXX | 300              | 8.250<br>[209.55] | 7.950<br>[201.93] | 7.400<br>[187.96] | 7.524<br>[191.11] |
| HDC-R320-41XX-XXXX | 320              | 8.750<br>[222.25] | 8.450<br>[214.63] | 7.900<br>[200.66] | 8.024<br>[203.81] |



PCB HOLE SPECIFICATION FOR COMPLIANT PIN INSTALLATION



## Ordering Information

HDC - RXXX - 41XX - XXXX

Plating Options: (See Plating Chart)

Contact Quantity:  
See Table

| Plating Chart (S1 & P1 Termination Styles ONLY) |                        |                          |                                                                                                                                       |
|-------------------------------------------------|------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Plating Suffix                                  | Press-Fit Terminations | Solder Tail Terminations | Plating Composition                                                                                                                   |
| KR                                              | (RIA E1 & C1 apply)    | (RIA E1 & C1 apply)      | 30 µ" [0.76 µm] Min. Au on Area 1<br>100 µ" [2.54 µm] Min. Whisker Mitigating Matte Tin on Area 4<br>50 µ" [1.27 µm] Min. Ni all over |

| Plating Chart (P2 Termination Styles ONLY) |                        |                          |                                                                                                                                               |
|--------------------------------------------|------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Plating Suffix                             | Press-Fit Terminations | Solder Tail Terminations | Plating Composition                                                                                                                           |
| KV                                         | (RIA E1 & C1 apply)    | (RIA E1 & C apply)       | 30 µ" [0.76 µm] Min. Au on area 1<br>3 µ" [0.08 µm] Min. Au on area 2<br>3 µ" [0.08 µm] Min. Au on area 3<br>50 µ" [1.27 µm] Min. Ni all over |

Termination Style / Lead length - Dim. F  
P1 - Press-fit / 0.250" (6.35)  
P2 - Press-fit / 0.550" (13.97)  
S1 - Solder / 0.157" (3.99)

TS-1138-E  
Sheet 3 of 3



Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### **Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



#### **3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

Please recycle. Printed in USA.  
© 3M 2013. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.