

# 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.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: April 14, 2010

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## 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

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## Electrical

**Current Rating:** 3.0 A

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

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

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## 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)

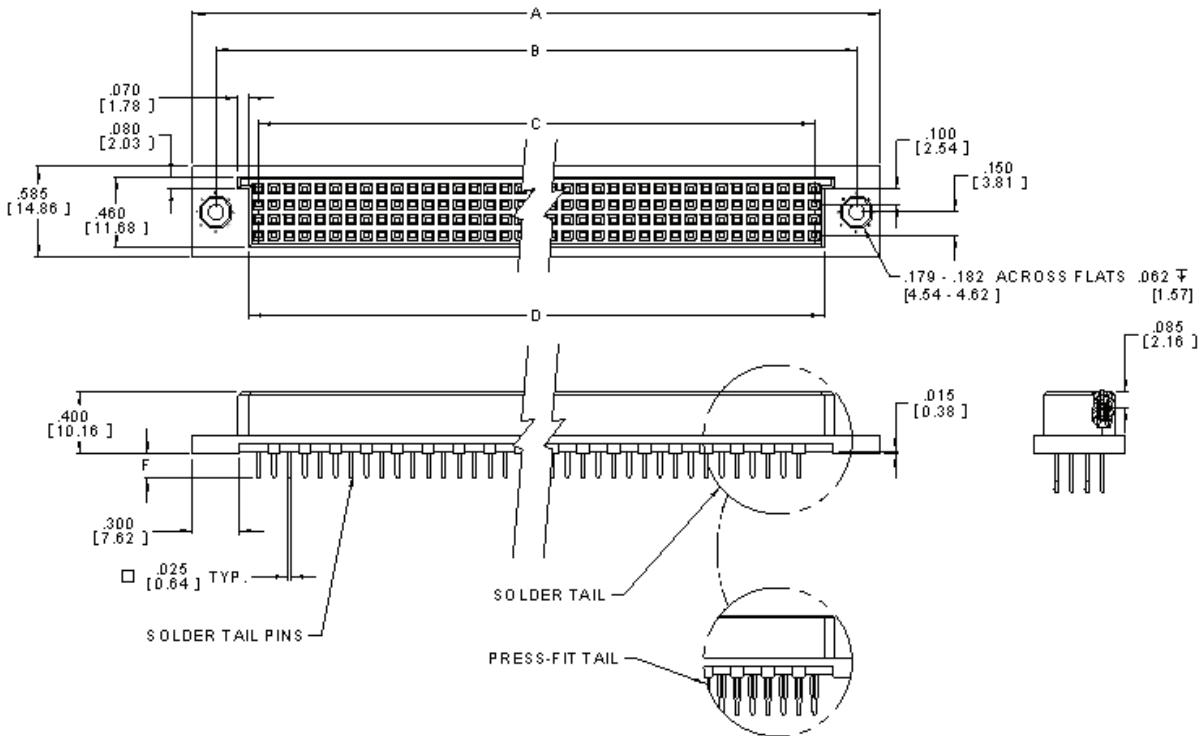
UL File No.: E68080

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## 4-Row Single Bay



| Tolerance Unless Noted |      |      |       |
|------------------------|------|------|-------|
|                        | Inch | [mm] |       |
|                        | .0   | .00  | .000  |
|                        | ±.1  | ±.01 | ±.005 |

[ ] Dimensions for Reference only

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# 3M™ HDC Socket

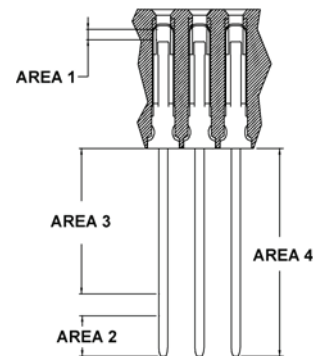
.100" Vertical Mount, PCB/Backplane, Solder Tail or Press-Fit

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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] |



## Ordering Information

**HDC - RXXX - 41XX - XXXX**

Plating Options: (See Plating Chart)

Contact Quantity:  
See Table

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)

| Plating Chart (S1 & P1 Termination Styles ONLY) |                        |                          |  |
|---|------------------------|--------------------------|--|
| Plating Suffix                                  | Press-Fit Terminations | Solder Tail Terminations | Plating Composition  |
| TG30  | (RIA E2 & C2 apply)    | (RIA E3 & C2 apply)      | 30 μ" [0.76 μm] Min. Au Area 1<br>100 μ" [2.54 μm] Min. Tin Lead Tail Area 4<br>50 μ" [1.27 μm] Min. Ni all over                               |
| 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>30 μ" [0.76 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 |

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