3M[™] HDC Socket

.100" Right Angle, PCB, 3 or 4-Row, Solder Tail or Press-Fit

HDC Series



- High density 3-row version, up to 240 contacts single bay
- Mates with 3-row single plugs and headers
- High density 4-row version, up to 320 contacts single bay
- Mates with 4-row single plugs and headers
- Low 2 oz. insertion force
- RoHS* compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 14, 2013

TS-1137-D Sheet 1 of 5

Physical

Insulation:

Material: Glass Filled Thermoplastic (LCP)

Flammability: UL 94V-0

Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ" [1.27 μm] min. Nickel
Wiping Area: See Ordering Information
Termination Area: See Ordering Information

Marking: Part Number and Date Code

Electrical

Current Rating: 3.0 A per contact

Insulation Resistance: $1 \times 10^3 \text{ M}\Omega \text{ min. at } 500 \text{ V}_{DC}$ **Withstanding Voltage:** 900 V_{AC} for 1 minute

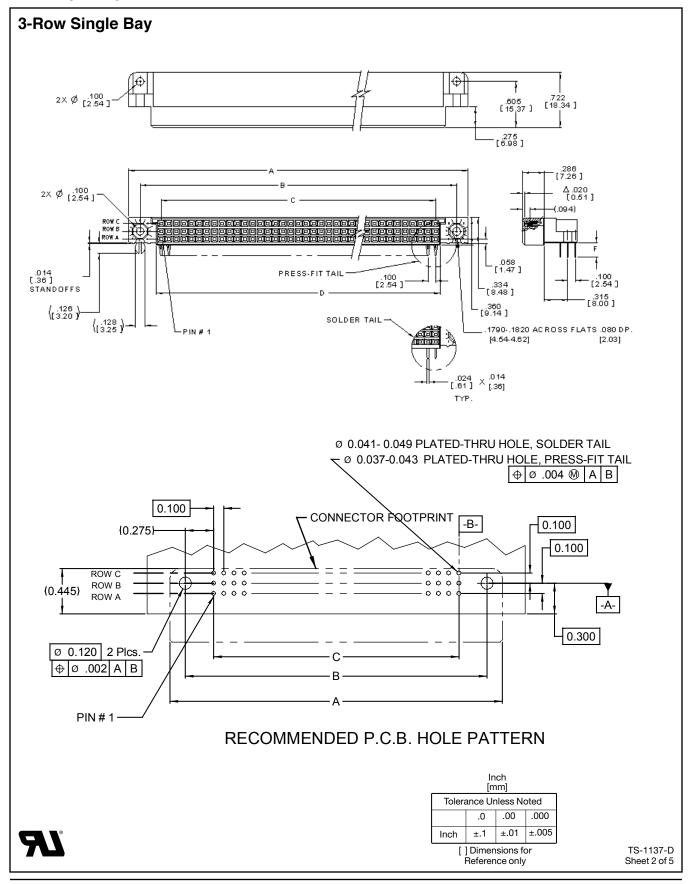
Environmental

Temperature Rating: -55°C to +125°C

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

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

UL File No.: E68080



Product Table/Dimensions for 3- Row, Single Bay

| Description | Contact Quantity | Α | В | С | D |
|--------------------|---------------------|----------|----------|----------|----------|
| HDC-S045-31XX-XXXX | 45 | 2.250 | 1.950 | 1.400 | 1.524 |
| | | [57.15] | [49.53] | [35.56] | [38.71] |
| HDC-S075-31XX-XXXX | 75 | 3.250 | 2.950 | 2.400 | 2.524 |
| | | [82.55] | [74.93] | [60.96] | [64.11] |
| HDC-S090-31XX-XXXX | 90 | 3.750 | 3.450 | 2.900 | 3.024 |
| | | [95.25] | [87.63] | [73.66] | [76.81] |
| HDC-S096-31XX-XXXX | 96 | 3.950 | 3.650 | 3.100 | 3.224 |
| | | [100.33] | [92.71] | [78.74] | [81.89] |
| HDC-S102-31XX-XXXX | 102 | 4.150 | 3.850 | 3.300 | 3.424 |
| | | [105.41] | [97.79] | [83.82] | [86.97] |
| HDC-S120-31XX-XXXX | 120 | 4.750 | 4.450 | 3.900 | 4.024 |
| | | [120.65] | [113.03] | [99.06] | [102.21] |
| HDC-S135-31XX-XXXX | 135 | 5.250 | 4.950 | 4.400 | 4.524 |
| | | [133.35] | [125.73] | [111.76] | [114.91] |
| HDC-S150-31XX-XXXX | 150 | 5.750 | 5.450 | 4.900 | 5.024 |
| | | [146.05] | [138.43] | [124.46] | [127.61] |
| HDC-S165-31XX-XXXX | 165 | 6.250 | 5.950 | 5.400 | 5.524 |
| | | [158.75] | [151.13] | [137.16] | [140.31] |
| HDC-S180-31XX-XXXX | 180 | 6.750 | 6.450 | 5.900 | 6.024 |
| | | [171.45] | [163.83] | [149.86] | [153.01] |
| HDC-S195-31XX-XXXX | 195 | 7.250 | 6.950 | 6.400 | 6.524 |
| | | [184.15] | [176.53] | [162.56] | [165.71] |
| HDC-S210-31XX-XXXX | 210 | 7.750 | 7.450 | 6.900 | 7.024 |
| | | [196.85] | [189.23] | [175.26] | [178.41] |
| HDC-S225-31XX-XXXX | 225 | 8.250 | 7.950 | 7.400 | 7.524 |
| | | [209.55] | [201.93] | [187.96] | [191.11] |
| HDC-S228-31XX-XXXX | 228 | 8.350 | 8.050 | 7.500 | 7.624 |
| | | [212.09] | [204.47] | [190.50] | [193.65] |
| HDC-S240-31XX-XXXX | 240 | 8.750 | 8.450 | 7.900 | 8.024 |
| | | [222.25] | [214.63] | [200.66] | [203.81] |

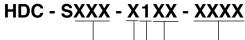
Plating

Chart)

Options:

(See Plating

Ordering Information



Contact Quantity

See Contact Quantities
on Product Table/
Dimensions Charts

Row Quantity
3 = Three Row
4 - Four Row

4 = Four Row

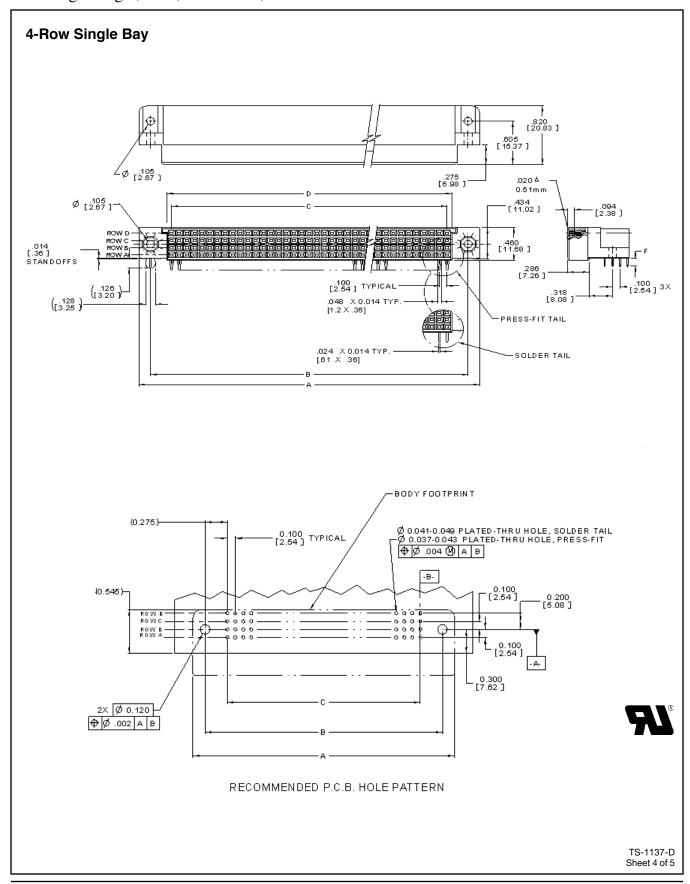
Insulator Options — 1 = Single bay insulator

Termination Style / Lead length - Dim. F P1 - Press-fit Right Angle / 0.157 (4.00) S1 - Solder Right Angle / 0.110 (2.79)

S2 - Solder Tail / 0.160 (4.06)

| L | | Plating Chart | | | |
|---|-------------------|---------------------------|-----------------------------|--|--|
| | Plating Suffix | Press-Fit Terminations | Solder Tail Terminations | Plating composition | |
| | | | | 30 μ" [0.76 μm] Min. Au on Area 1 100 μ" [2.54 μm] Min. Whisker Mitigating Matte Tin on Area 4 50 μ" [1.27 μm] Min. Ni all over | |

TS-1137-D Sheet 3 of 5



| Product Table/Dimensions for 4-Row Socket Single Bay | | | | | | | | |
|--|-----------------|-------------------|-------------------|-------------------|-------------------|--|--|--|
| Description | Pin Quantity | А | В | С | D | | | |
| HDC-S060-41XX-XXXX | 60 | 2.250 [57.15] | 1.950 [49.53] | 1.400 [49.53] | 1.524 [38.71] | | | |
| HDC-S076-41XX-XXXX | 76 | 2.650 [67.31] | 2.350 [59.69] | 1.800 [45.72] | 1.924 [48.87] | | | |
| HDC-S080-41XX-XXXX | 80 | 2.750 [69.85] | 2.450 [62.23] | 1.900 [48.26] | 2.024 [51.41] | | | |
| HDC-S100-41XX-XXXX | 100 | 3.250 [82.55] | 2.950 [74.93] | 2.400 [60.96] | 2.524 [64.11] | | | |
| HDC-S120-41XX-XXXX | 120 | 3.750 [95.25] | 3.450 [87.63] | 2.900 [73.66] | 3.024 [76.81] | | | |
| HDC-S128-41XX-XXXX | 128 | 3.950 [100.33] | 3.650 [92.71] | 3.100 [78.74] | 3.224 [81.89] | | | |
| HDC-S140-41XX-XXXX | 140 | 4.250 [107.95] | 3.950 [100.33] | 3.400 [86.36] | 3.524 [89.51] | | | |
| HDC-S160-41XX-XXXX | 160 | 4.750 [120.65] | 4.450 [113.03] | 3.900 [99.06] | 4.024 [102.21] | | | |
| HDC-S168-41XX-XXXX | 168 | 4.950 [125.73] | 4.650 [118.11] | 4.100 [104.14] | 4.224 [107.29] | | | |
| HDC-S180-41XX-XXXX | 180 | 5.250 [133.35] | 4.950 [125.73] | 4.400 [111.76] | 4.524 [114.91] | | | |
| HDC-S200-41XX-XXXX | 200 | 5.750 [146.05] | 5.450 [138.43] | 4.900 [124.46] | 5.024 [127.61] | | | |
| HDC-S216-41XX-XXXX | 216 | 6.150 [156.21] | 5.850 [148.59] | 5.300 [134.62] | 5.424 [137.77] | | | |
| HDC-S220-41XX-XXXX | 220 | 6.250 [158.75] | 5.950 [151.13] | 5.400 [137.16] | 5.524 [140.31] | | | |
| HDC-S240-41XX-XXXX | 240 | 6.750 [171.45] | 6.450 [163.83] | 5.900 [149.86] | 6.024 [153.01] | | | |
| HDC-S260-41XX-XXXX | 260 | 7.250 [184.15] | 6.950 [176.53] | 6.400 [162.56] | 6.524 [165.71] | | | |
| HDC-S280-41XX-XXXX | 280 | 7.750 [196.85] | 7.450 [189.23] | 6.900 [175.26] | 7.024 [178.41] | | | |
| HDC-S300-41XX-XXXX | 300 | 8.250 [209.55] | 7.950 [209.55] | 7.400 [187.96] | 7.524 [191.11] | | | |
| HDC-S320-41XX-XXXX | 320 | 8.750 [222.25] | 8.450 [214.63] | 7.900 [200.66] | 8.024 [203.81] | | | |

TS-1137-D Sheet 5 of 5

Important Notice

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