

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: March 25, 2008

TS-1138-C Sheet 1 of 3

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

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

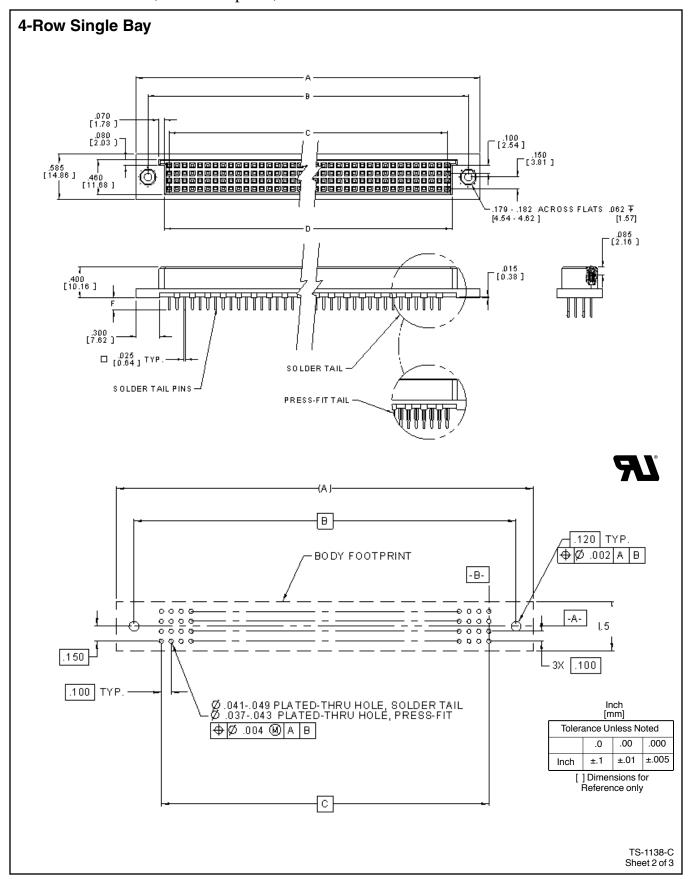
Temperature Rating: -55°C to +105°C

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

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

UL File No.: E68080

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



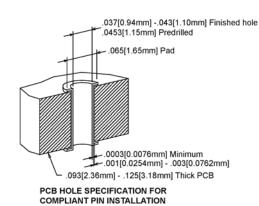
http://www.3M.com/interconnects/

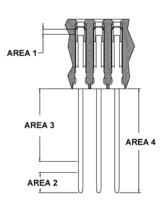
.100" Vertical Mount, PCB/Backplane, Solder Tail or Press-Fit

Product Table/Dimensions for 4-Row, Single Bay

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

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





Ordering Information

HDC - RXXX - 41XX - XXXX

Contact Quantity: -See Table — Plating Options: (See Plating Chart)

	Plating Chart (S1 & P1 Termination Styles ONLY)						
Plating	Press-Fit	Solder Tail					
Suffix	Terminations	Terminations	Plating Composition				
TR	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	3 µ" [0.08 µm] Min. Au over 7µ" [0.18 µm] PdNi area 1 100 µ" [2.54 µm] Min. Tin Lead area 4 50 µ" [1.27 µm] Min. Ni all over				
TG30	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	30 μ" [0.76 μm] Min. Au Area 1 100 μ" [2.54 μm] Min. Tin Lead Tail Area 4 50 μ" [1.27 μm] Min. Ni all over				
нм	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	3 μ" [0.08 μm] Min Au on Area 1 7 μ" [0.18 μm] PdNi 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				
KR	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	30 μ" [0.76 μm] Min. Au on Area 1 100 μ" [5.08 μm] Min. Whisker Mitigating Matte Tin on Area 4 50 μ" [1.27 μm] Min. Ni all over				

	Plating Chart (P2 Termination Styles ONLY)						
Plating	Press-Fit	Solder Tail					
Suffix	Terminations	Terminations	Plating Composition				
GG30	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	30 μ" [0.76 μm] Min. Au on area 1 10 μ" [0.25 μm] Min. Au on area 2 100 μ" [2.54 μm] Min Tin Lead on area 3 50 μ" [1.27 μm] Ni all over				
RR	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	3 μ" [0.08 μm] Min. Au over 7μ" [0.18 μm] PdNi area 1 and 2 100 μ" [2.54 μm] Min Tin Lead on area 3 50 u" [1.27 μm] Min. Ni all over				

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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)

Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA

Appendix C1: China RoHS



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix C2: China RoHS



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)					
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	0	0	0	0	0

O:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)

^{×:}表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)					
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金(Metal alloy)	×	0	0	0	0	0

O;表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)

×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

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 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.



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