

# 3M™ Pin Strip Header

.100" and .100" × .100" Straight and Right Angle, Solder Tail

2300 Series



- One and two row versions
- Straight and right angle versions
- Tin lead or gold plating available
- Tapered tip does not cut the socket wipe during insertion, reducing operational failure and repairs
- Board retention feature available
- Two-row right angle mates with Pak 100 wiremount sockets anywhere on the board
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: February 22, 2007

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## Physical

### Insulation

Material: Glass Filled Thermoplastic  
Flammability: UL 94V-0  
Color: Black

### Contact

Material: Copper Alloy

### Plating

Underplating: 50 μ" [ 1.27 μm ] Nickel  
Wiping Area: Tin or Gold (See Ordering Information)  
Solder Tails: 100 μ" [ 2.54 μm ] 90/10 Tin Lead  
Marking: None

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## Electrical

**Current Rating:** 3 A  
**Insulation Resistance:**  $> 5 \times 10^9 \Omega$  at 500 V<sub>DC</sub>  
**Withstanding Voltage:** 1000 V<sub>RMS</sub> at Sea Level

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## Environmental

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

UL File No.: E68080

# 3M™ Pin Strip Header

.100" and .100" x .100" Straight and Right Angle, Solder Tail

2300 Series

**Straight**

**Recommended Mounting Hole Pattern**

**Notes:**

1. "C" = .100" X pin quantity per row.
2. The recommended PCB hole size for the kinked tail positions on the .120" solder tail connector is  $\varnothing .040 \pm .002$ . The kinked tail positions are the first and last position in each row.

**3M**

**Recommended Mounting Hole Pattern**

**3M**

Inch [mm]

Tolerance Unless Noted		
	.0	.00 .000
Inch	± .1	± .01 ± .005

[ ] Dimensions for Reference only

**Ordering Information**

**23XX-6XXX XX**

Pin Quantity  
One Row (02-40)  
Two Row (04-80)

Pin Length (Dim A)  
1 = .230"  
2 = .318"

Tail  
One Row  
11 = .120" Solder Tails  
51 = .120" Kinked Solder Tails

Two Row  
21 = .120" Solder Tails  
81 = .120" Kinked Solder Tails

Plating  
TB = 30 $\mu$  "Gold (App. E3 & C2 Apply)  
TG = 10 $\mu$  "Gold (App. E3 & C2 Apply)  
TP = Tin-lead (App. E3 & C2 Apply)

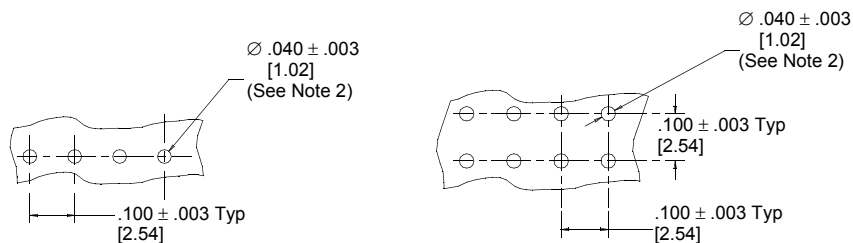
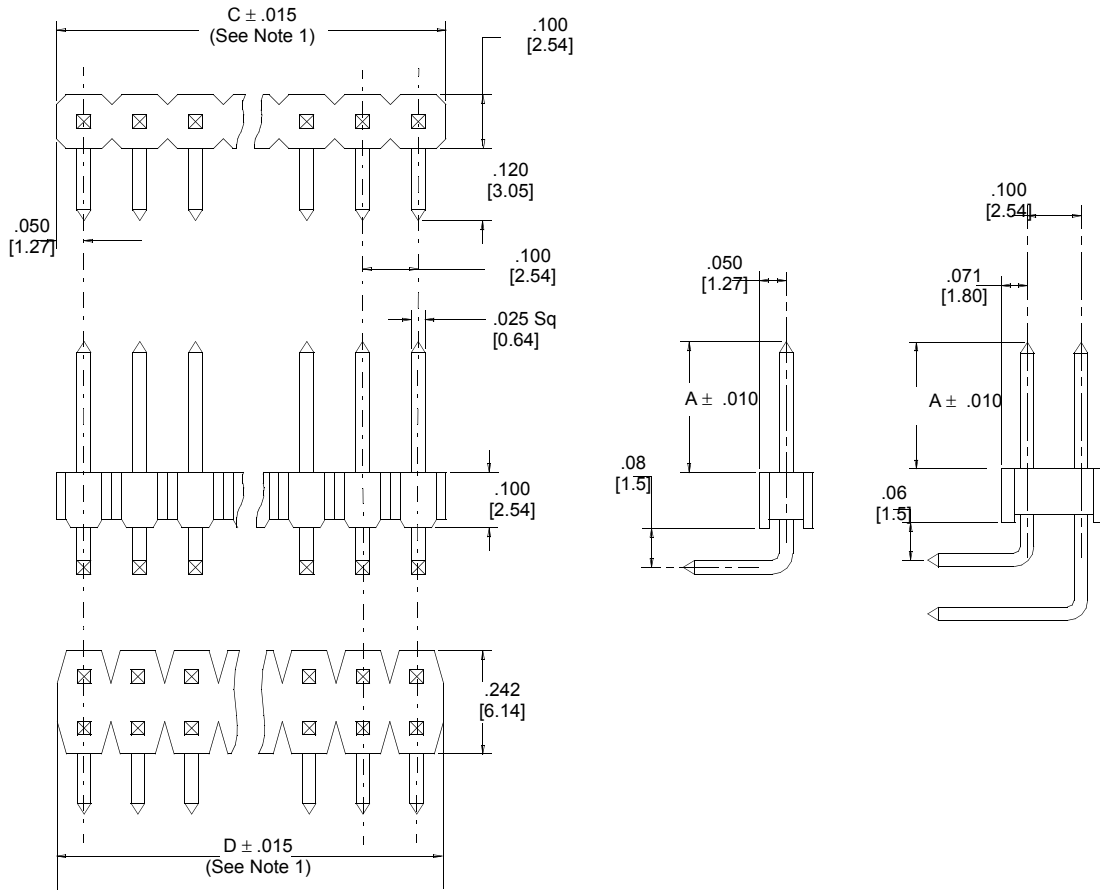
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# 3M™ Pin Strip Header

.100" and .100" x .100" Straight and Right Angle, Solder Tail

2300 Series

## Right Angle



**Recommended Mounting Hole Pattern**



Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[ ] Dimensions for Reference only

### Notes:

1. "C" = .100" X pin quantity per row.
2. The recommended PCB hole size for the kinked tail positions on the .120" solder tail connector is  $\varnothing .040 \pm .002$ . The kinked tail positions are the first and last position in each row.
3. Drawing not to scale. Part details may vary.

## Ordering Information

**23XX-5XXX XX**

Pin Quantity  
One Row (02-40)  
Two Row (04-80)

Pin Length  
(Dim A)  
1 = .230"  
2 = .318"

Tail  
One Row  
11 = .120" Solder Tails  
51 = .120" Kinked Solder Tails

Two Row  
21 = .110" Solder Tails  
81 = .110" Kinked Solder Tails

### Plating

TB = 30 $\mu$ " Gold (App. E3 & C2 Apply)  
TG = 10 $\mu$ " Gold (App. E3 & C2 Apply)  
TP = Tin-lead (App. E3 & C2 Apply)

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Interconnect Solutions

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

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For technical, sales or ordering information call

800-225-5373

## 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 2005/17/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 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 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	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)	×	○	○	○	○	○
○: 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 one (1) year 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.**



### Electronic Solutions Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
800/225-5373  
www.3M.com/interconnects