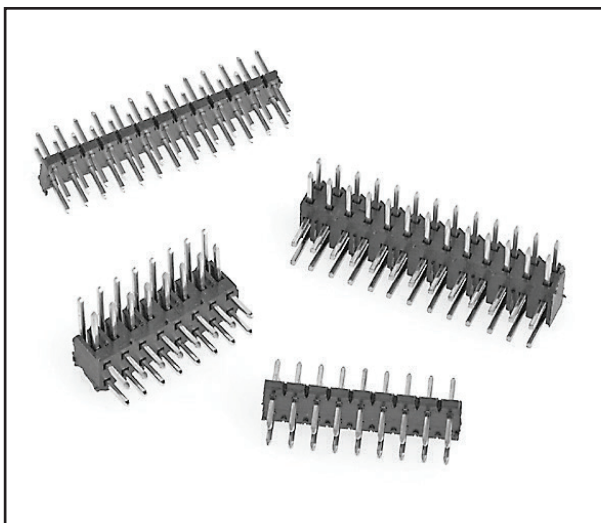


# 3M™ Pin Strip Header, 1512 Series

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight



- Mates with a variety of dual row 2 mm board mount and wire mount sockets
- High temperature insulator compatible with lead-free solder processes
- Extensive pin count availability from 4 to 80 positions
- Available with vacuum cap in tape and reel packaging for automatic placement
- Minimizes use of PC board space
- End and side stackable design
- Visit [3M.com/regs](http://3M.com/regs) or contact your 3M representative to find the RoHS compliance status of the 3M part you are interested in.

Date Modified: January 20, 2017

TS-0808-J  
Sheet 1 of 5

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## Physical

**Insulation:**

Material: Glass-filled LCP

Flammability: UL 94V-0

Color: Black

**Contact:**

Material: Copper Alloy

**Plating:**

Underplating: 50 μ" [1.27 μm] Nickel

Wiping Area: 30 μ" [0.76 μm] Gold Avg.

Solder Tails: 200-300 μ" [5.08-7.62 μm] Matte Tin

**Marking:** None

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## Electrical

**Current Rating:** 3.50 A, 1 Line Powered  
1.75 A, 6 Adjacent Lines Powered  
1.00 A, All Lines Powered

Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 250 V<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>RMS</sub> at Sea Level

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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



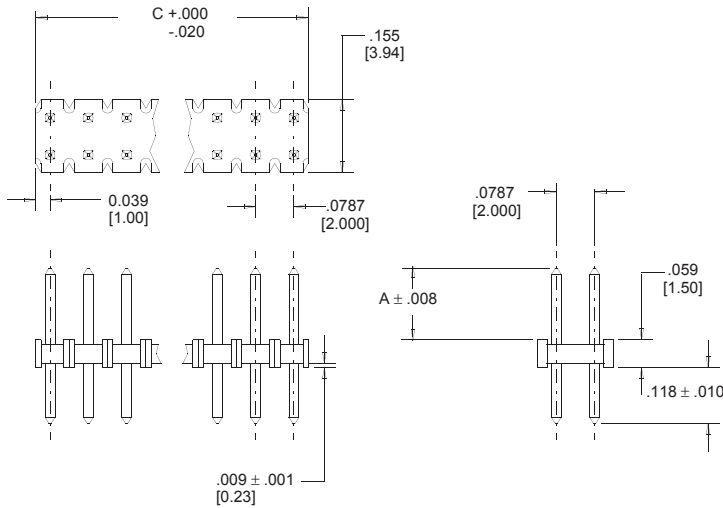
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<http://www.3Mconnectors.com>

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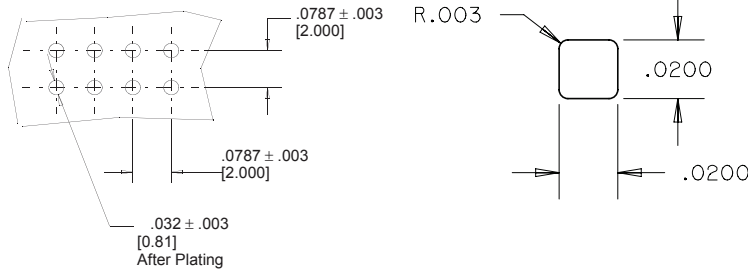
# 3M™ Pin Strip Header, 1512 Series

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

## Straight



Contact Quantity	Dimension C
80	3.15 [80.0]



Recommended Mounting Hole Pattern

Pin Cross Section

mm  
[Inch]

Tolerance Unless Noted		
	in.	mm
0.X	-	$\pm 0.5$
0.XX	$\pm 0.01$	$\pm 0.25$
0.XXX	$\pm 0.005$	$\pm 0.13$

[ ] Dimensions for Reference Only



## Ordering Information

**1512XX-8X22-RB** (RIA E1 & C1 Apply)

Contact Quantity  
(See Table 1)

Pin Length  
Dim 'A'  
3 = .130"  
4 = .152"

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Sheet 2 of 5



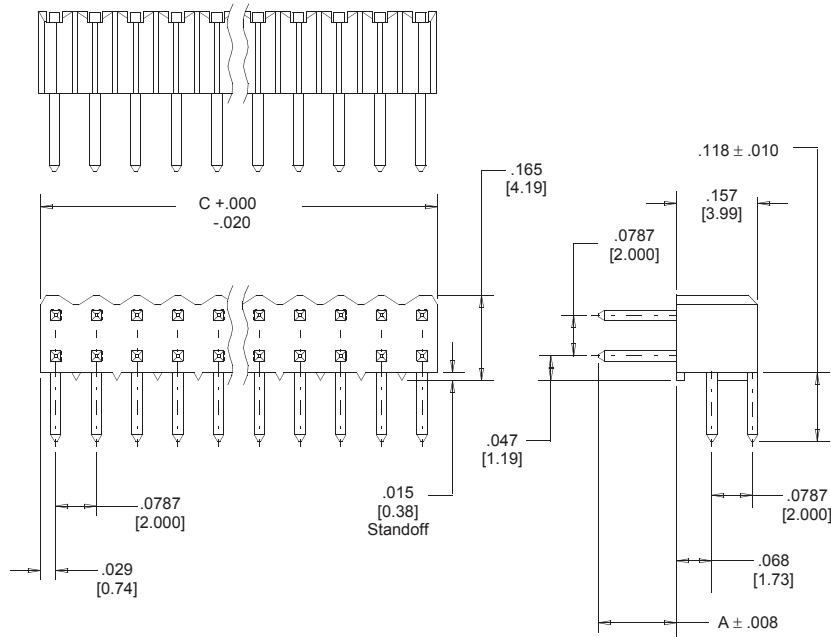
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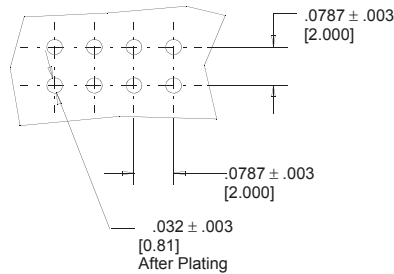
# 3M™ Pin Strip Header, 1512 Series

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

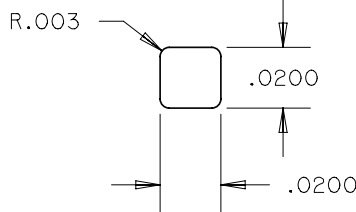
## Right Angle



Contact Quantity	Dimension C
80	3.15 [80.0]



**Recommended Mounting Hole Pattern**



**Pin Cross Section**

mm  
[Inch]

Tolerance Unless Noted		
	in.	mm
0.X	-	±0.5
0.XX	±0.01	±0.25
0.XXX	±0.005	±0.13

[ ] Dimensions for Reference Only



## Ordering Information

**1512XX-7X22-RB** (RIA E1 & C1 Apply)

Contact Quantity  
(See Table 1)

Pin Length  
Dim 'A'  
3 = .130"  
4 = .152"

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Sheet 3 of 5

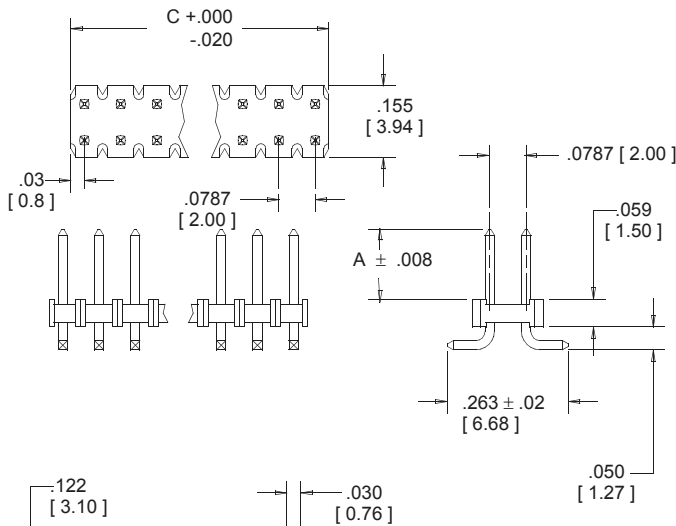
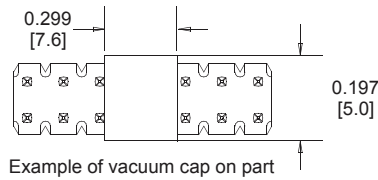


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# 3M™ Pin Strip Header, 1512 Series

2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

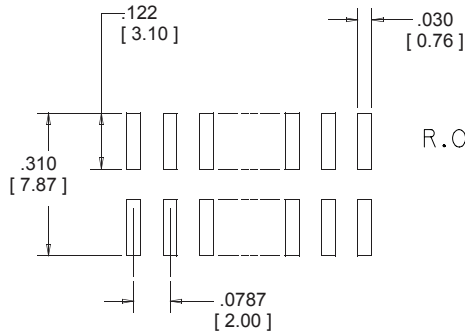


Contact Quantity	Dimension C	Tape Width	Order Code
80	3.15 [80.0]	n/a	n/a

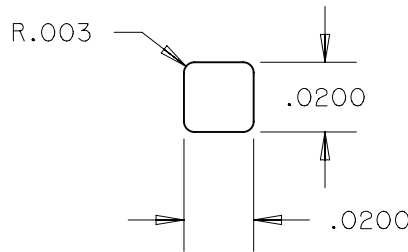
mm  
[Inch]

Tolerance Unless Noted		
	in.	mm
0.X	-	±0.5
0.XX	±0.01	±0.25
0.XXX	±0.005	±0.13

[ ] Dimensions for Reference Only



Recommended PCB Pad Layout



Pin Cross Section

- Notes: 1. Tape & reel include vacuum pick-up cap for pick n place handling equipment.  
2. Parts in tray packaging are supplied without vacuum cap.



## Ordering Information

**1512XX-2X20-RB-XX** (RIA E1 & C1 Apply)

Contact Quantity  
(See Table 1)

Pin Length  
Dim 'A'  
3 = .130"  
4 = .152"

Packaging suffix:  
Blank = Tray Packaging  
WX = Tape & Reel Packaging  
(see table 1)

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6801 River Place Blvd.  
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1-800-225-5373  
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