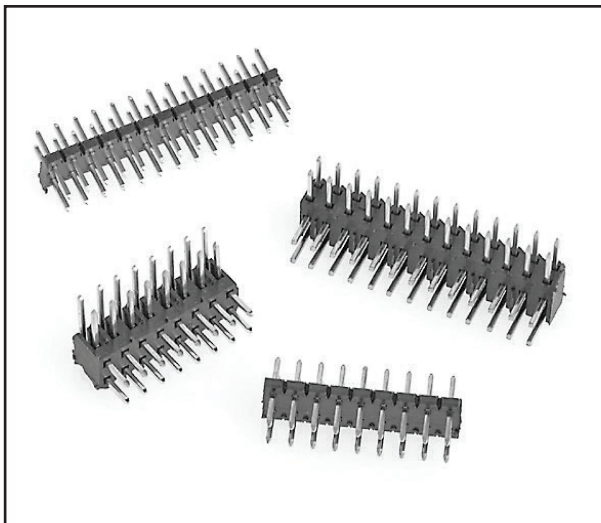


# 3M™ Pin Strip Header, 1512 Series

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

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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

---

## 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



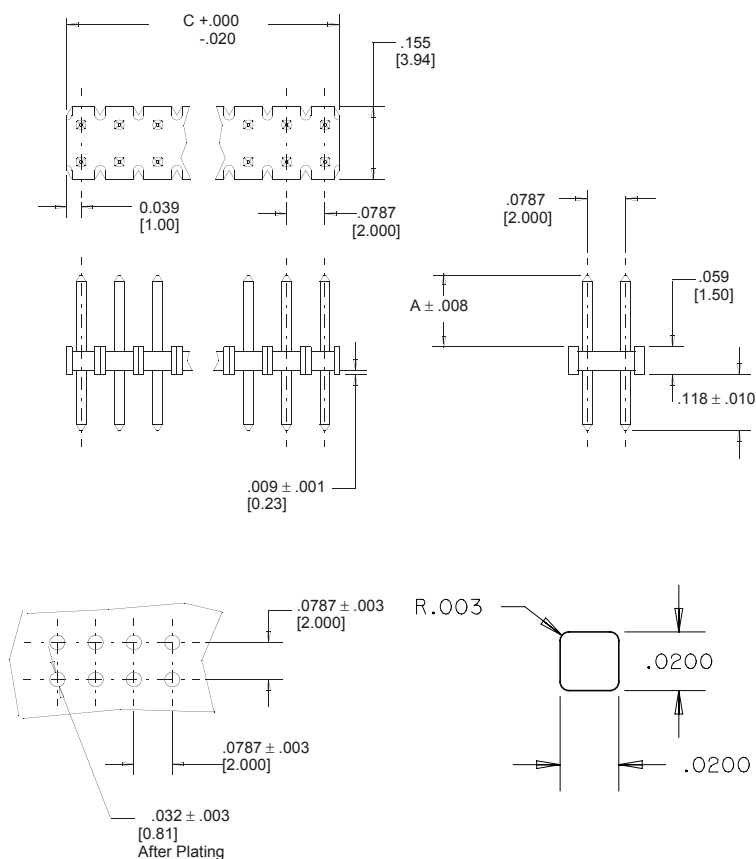
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# 3M™ Pin Strip Header, 1512 Series

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

## Straight



| Contact Quantity | Dimension C |
|------------------|-------------|
| 80               | 3.15 [80.0] |

| 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 Mounting  
Hole Pattern

Pin Cross Section



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

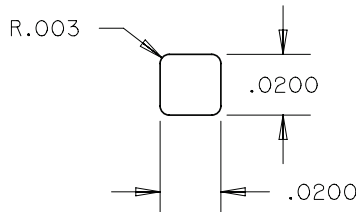
Technical drawing of a multi-pin connector assembly, showing two views: a top view and a side view.

**Top View Dimensions:**

- Overall width:  $C + .000$  to  $-.020$
- Pin pitch (center-to-center):  $.0787$  [2.000]
- Pin diameter:  $.029$  [0.74]
- Standoff height:  $.015$  [0.38]

**Side View Dimensions:**

- Pin length:  $.165$  [4.19]
- Pin diameter:  $.047$  [1.19]
- Pin diameter:  $.118 \pm .010$
- Pin diameter:  $.157$  [3.99]
- Pin diameter:  $.0787$  [2.000]
- Pin diameter:  $.068$  [1.73]
- Pin diameter:  $.0787$  [2.000]
- Pin diameter:  $A \pm .008$

mm  
[Inch][ ] Dimensions for Reference Only

### Pin Cross Section



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

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

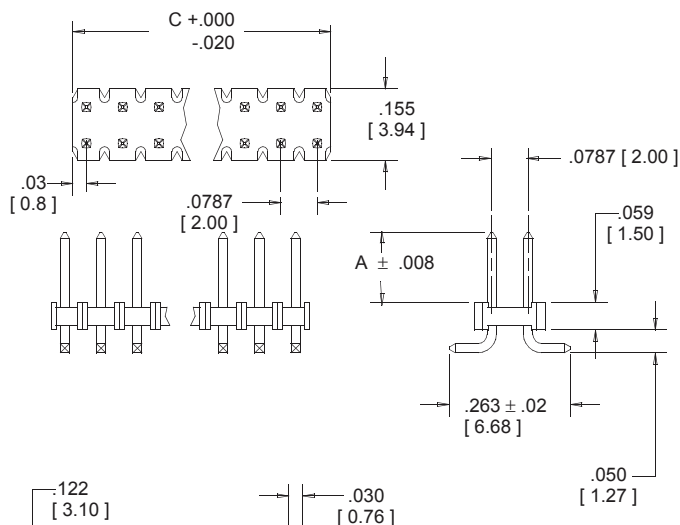
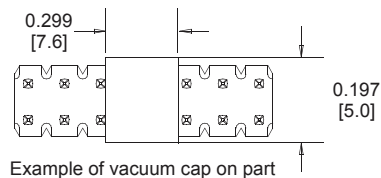
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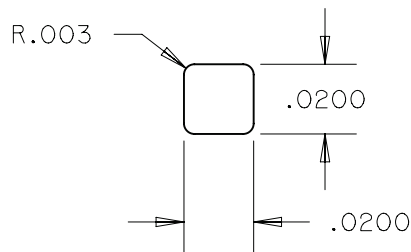
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# 3M™ Pin Strip Header, 1512 Series

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



Recommended PCB Pad Layout



Pin Cross Section

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

| 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

- 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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