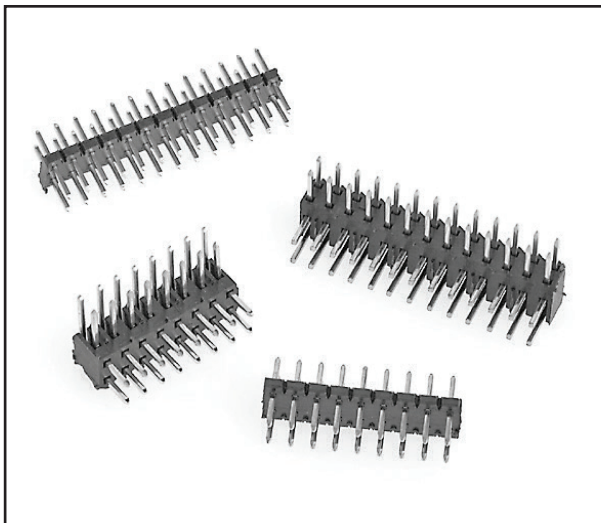


3M™ Pin Strip Header, 1512 Series

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 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_{DC}

Withstanding Voltage: 500 V_{RMS} at Sea Level

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



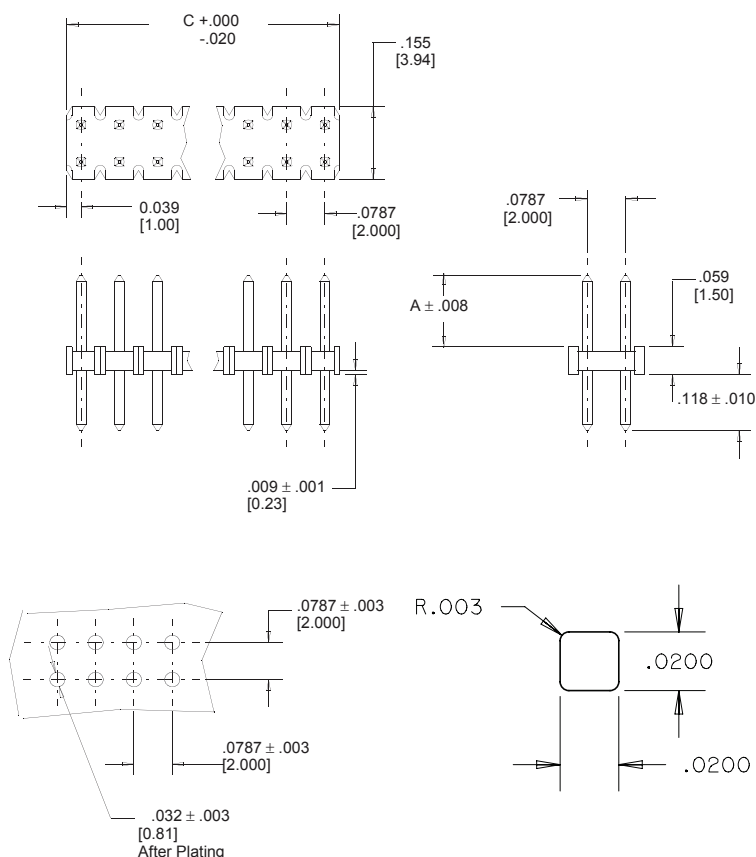
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<http://www.3Mconnectors.com>

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For technical, sales or ordering information call
800-225-5373

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]

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 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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Sheet 2 of 5



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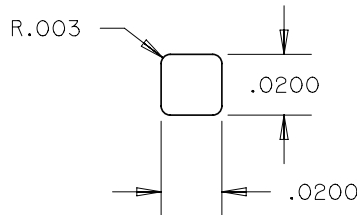
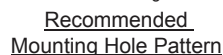
2 mm × 2 mm Solder Tail Straight & Right Angle, Surface Mount Straight

Technical drawing of a multi-pin connector assembly. The drawing shows a top view and a side view. The top view shows a rectangular assembly with two rows of pins. The dimensions are as follows:

- Overall width: $C + .000$ to $-.020$
- Pin pitch (center-to-center): $.0787$ [2.000]
- Pin diameter: $.029$ [0.74]
- Pin length (from base): $.165$ [4.19]
- Standoff height: $.015$ [0.38]
- Pin diameter (bottom row): $.047$ [1.19]
- Pin diameter (top row): $.118 \pm .010$
- Pin diameter (middle row): $.157$ [3.99]
- Pin diameter (bottom row, side view): $.0787$ [2.000]
- Pin diameter (bottom row, side view): $.068$ [1.73]
- Pin diameter (bottom row, side view): $A \pm .008$

mm
[Inch]

[] Dimensions for Reference Only



Pin Cross Section



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

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

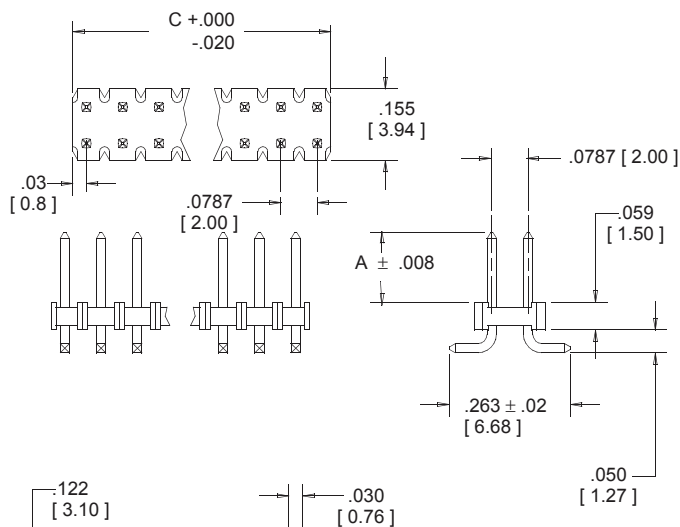
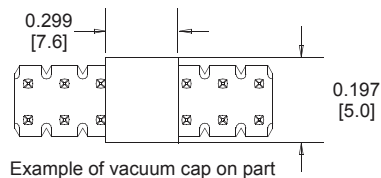
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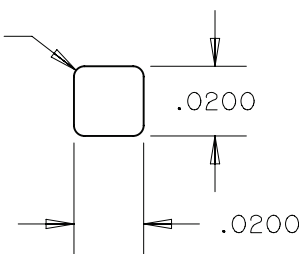
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3M™ Pin Strip Header, 1512 Series

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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