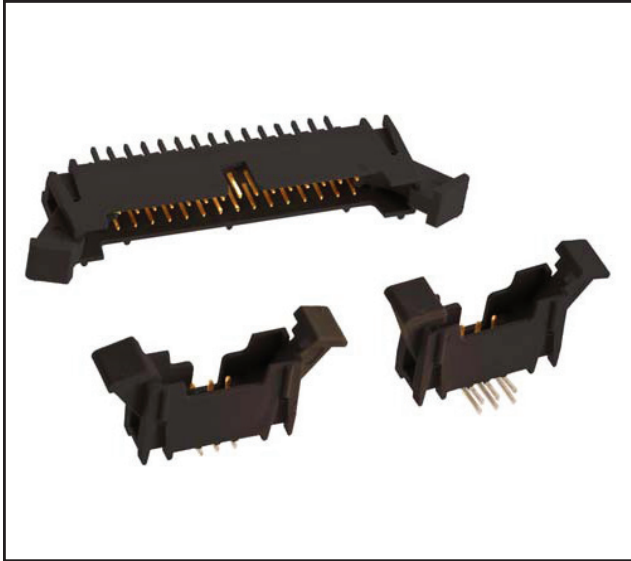


# 3M™ Latch/Eject Header

2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

1552 Series



- 14 pin counts ranging from 6 to 50 positions
- Latch/eject mechanism securely latches to socket
- Roll pins retain latches to body in shipping and high vibration environments
- Ejector helps make unmating of cable assemblies easier
- High temperature insulators suitable for lead free processing
- Robust system solution when used with 3M™ IDC Wiremount Sockets or 3M™ Molded Cable Assemblies
- SMT latch/eject headers are available in tape and reel with vacuum cap for automatic placement
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: June 22, 2012

TS-2199-K  
Sheet 1 of 4

## Physical

### Insulation:

Material: Glass Filled Polyester (LCP)  
Flammability: UL 94V-0  
Color: Black

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50 μ" [ 1.27 μm ] Nickel  
Wiping Area: See Ordering Information  
Solder Tails: 200 μ" [ 5.0 μm ] Matte Tin  
Mating Compatibility 1522, 870, 2M, 2 mm SCI Carrier Series

## Electrical

**Current Rating:** 4.75 A, 1 Line Powered  
2.00 A, 6 Adjacent Lines Powered  
1.25 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 500 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at Sea Level

## Environmental

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

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

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



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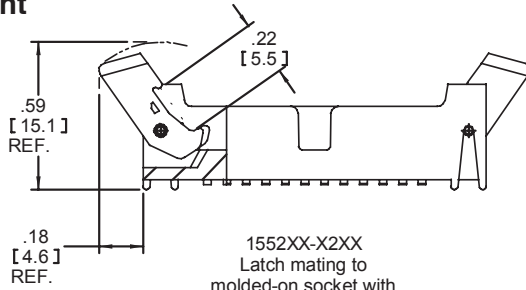
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# 3M™ Latch/Eject Header

2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

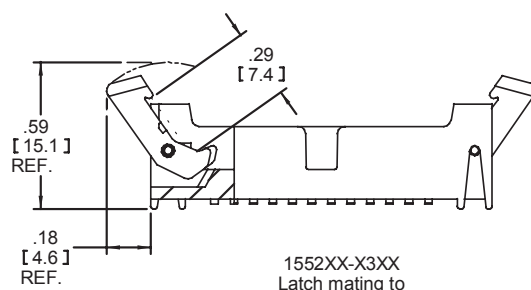
1552 Series

## Straight



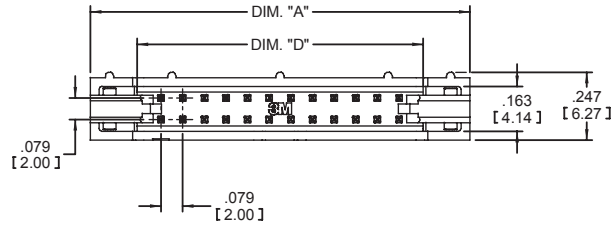
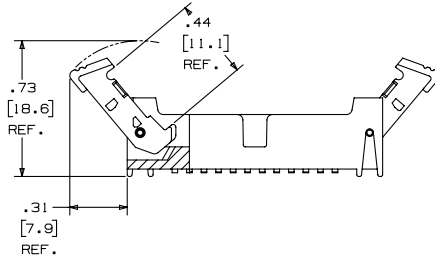
1552XX-X2XX  
Latch mating to  
molded-on socket with  
latching ear

See Chart 1 for latch availability.

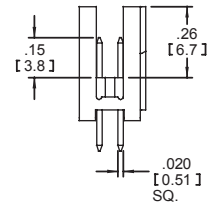
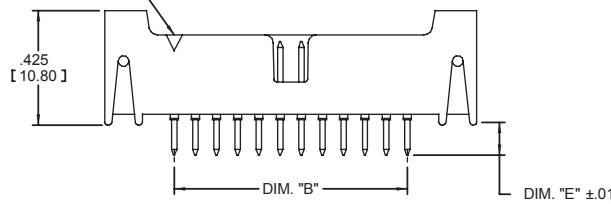


1552XX-X3XX  
Latch mating to  
press-on socket

See Chart 1 for latch availability.



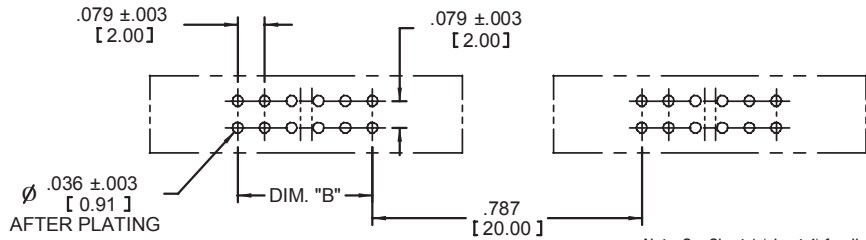
POSITION #1  
ORIENTATION  
TRIANGLE



| Inch<br>[mm]           |     |      |       |
|------------------------|-----|------|-------|
| Tolerance Unless Noted |     |      |       |
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.008 |

[ ] Dimensions for Reference Only

## PC Board Footprint



Note: See Chart 1 (sheet 4) for dimensions A, B, D

## Ordering Information

### 1552XX-6X0X-XX

Contact Quantity  
(See Table)

Latching:

2 = Latch, molded on skt with latching ear, 870, 2M Series

3 = Latch, press on skt, 1522 Series

4 = Latch, 2 mm SCI Carrier Only

Note: See Chart 1 (sheet 4) for latching availability

Solder Tail Length:  
Dimension "E"

2 = .112 [2.84]

3 = .155 [3.94]

Plating Options:

RB = 30 μm [0.76 μm] Gold

RA = 10 μm [0.25 μm] Gold

(RIA E1 & C1 apply) (both platings)

TS-2199-K  
Sheet 2 of 4

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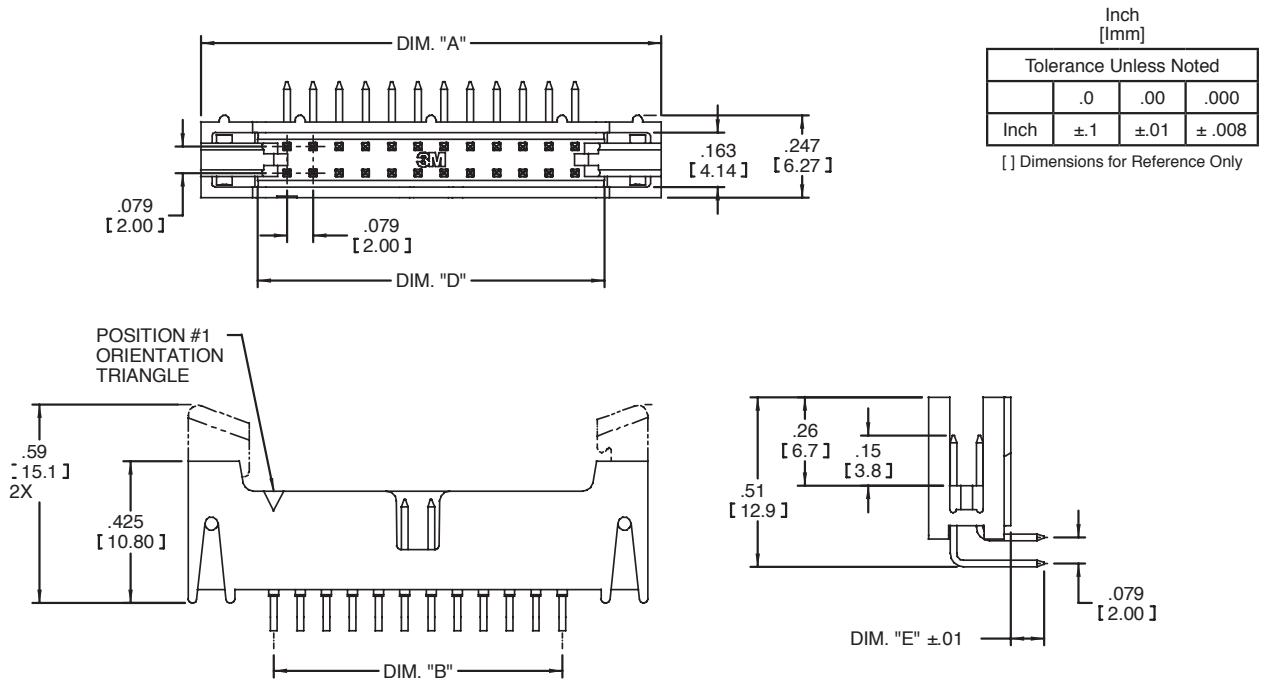
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# 3M™ Latch/Eject Header

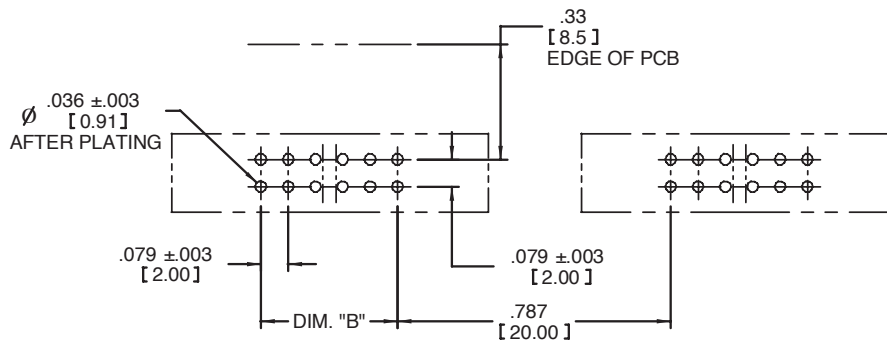
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

1552 Series

## Right Angle



## PC Board Footprint



### Notes:

1. See straight drawings (sheet 2) for latch dimensions.
2. See Chart 1 (sheet 4) for dimensions A, B, and D.

## Ordering Information

### 1552XX-5X0X-XX

Contact Quantity  
(See Table)

Latching:

- 2 = Latch, molded on skt with latching ear, 870, 2M Series
  - 3 = Latch, press on skt, 1522 Series
  - 4 = Latch, 2 mm, SCI carrier only
- Note: See Chart 1 (sheet 4) for latching availability

Solder Tail Length:  
Dimension "E"  
2 = .112" [2.84]  
3 = .155" [3.94]

Plating Options:

- RB = 30 μm [0.76 μm] Gold
  - RA = 10 μm [0.25 μm] Gold
- (RIA E1 & C1 apply) (both platings)

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Sheet 3 of 4

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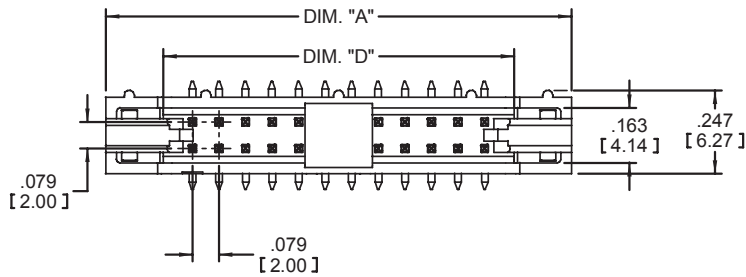
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# 3M™ Latch/Eject Header

2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

1552 Series



## Surface Mount Vertical

| Tolerance Unless Noted |     |      |       |
|------------------------|-----|------|-------|
| Inch [mm]              |     |      |       |
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.008 |

[ ] Dimensions for Reference Only

POSITION #1  
ORIENTATION  
TRIANGLE

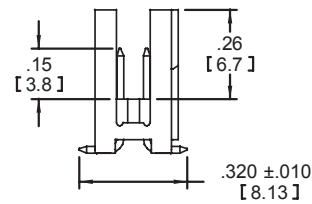
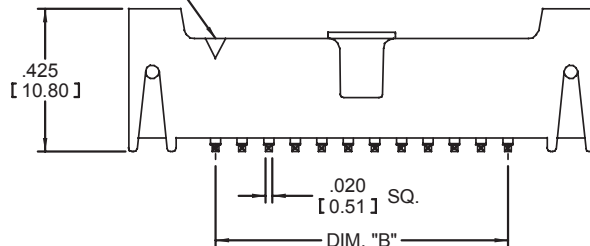
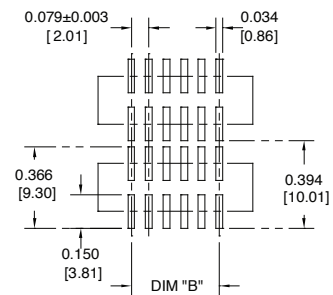


Chart 1

| Contact Quantity | Dim. "A"<br>± 0.008 | Dim "B"<br>± 0.006 | Dim "D"<br>± 0.006 | Latch Availability | Tape Width | Order Code |
|------------------|---------------------|--------------------|--------------------|--------------------|------------|------------|
| 6                | .673 [17.09]        | .157 [4.00]        | .333 [8.45]        | 2,4                | 44 mm      | WD         |
| 8                | .752 [19.10]        | .236 [6.00]        | .411 [10.44]       | 2,4                | 44 mm      | WD         |
| 10               | .831 [21.10]        | .315 [8.00]        | .490 [12.45]       | 2,3,4              | 44 mm      | WD         |
| 12               | .910 [23.10]        | .394 [10.00]       | .569 [14.45]       | 3,4                | 44 mm      | WD         |
| 16               | 1.067 [27.10]       | .551 [14.00]       | .726 [18.44]       | 2,4                | 56 mm      | WE         |
| 20               | 1.224 [31.09]       | .709 [18.00]       | .884 [22.45]       | 2,3,4              | 56 mm      | WE         |
| 22               | 1.303 [33.10]       | .787 [20.00]       | .963 [24.46]       | 2,4                | 56 mm      | WE         |
| 24               | 1.382 [35.10]       | .866 [22.00]       | 1.041 [26.44]      | 2,4                | 56 mm      | WE         |
| 26               | 1.461 [37.10]       | .945 [24.00]       | 1.120 [28.45]      | 2,3,4              | 72 mm      | WF         |
| 30               | 1.618 [41.10]       | 1.102 [28.00]      | 1.278 [32.46]      | 2,4                | 72 mm      | WF         |
| 34               | 1.774 [45.09]       | 1.260 [32.00]      | 1.435 [36.46]      | 2,4                | 72 mm      | WF         |
| 40               | 2.012 [51.10]       | 1.496 [38.00]      | 1.671 [42.44]      | 2,3,4              | 72 mm      | WF         |
| 44               | 2.169 [55.09]       | 1.654 [42.00]      | 1.829 [46.46]      | 2,3,4              | 88 mm      | WG         |
| 50               | 2.405 [61.09]       | 1.890 [48.00]      | 2.065 [54.45]      | 2,3,4              | 88 mm      | WG         |

## PC Board Footprint



Note:

1. See straight drawings (pg 2) for latch dimensions.
2. Tape & reel parts always supplied with pick 'n place surface
3. Tray parts supplied without pick 'n place

- Notes: 1. See straight drawings (sheet 2) for latch dimensions.  
 2. See Chart 1 for applicability.  
 3. Tape and Reel parts include tape vacuum pick-up cap  
 4. Tape and reel not available with SCI latch.

## Ordering Information

### 1552XX-2X00-XX-XX

Contact Quantity  
(See Table)

Latching:  
 2 = Latch, molded on skt with latching ear, 870, 2M Series  
 3 = Latch, press on skt, 1522 Series  
 4 = Latch, 2 mm SCI carrier only

Packaging:  
 WX = Tape & reel (see table)  
 Blank = Trays

Plating Options:  
 RB = 30 μ" [ 0.76 μm ] Gold  
 RA = 10 μ" [ 0.25 μm ] Gold  
 (RIA E1 & C1 apply) (both platings)

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 Sheet 4 of 4

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