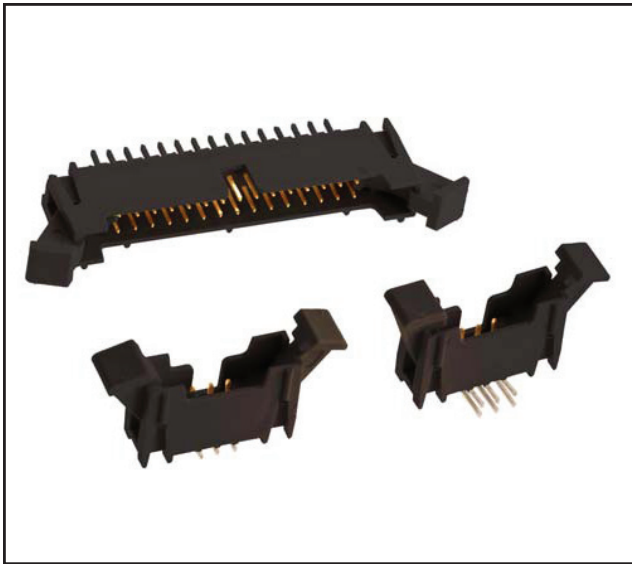


# 3M™ Latch/Eject Header

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)

**3M**

Electronic Solutions Division  
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<http://www.3Mconnectors.com>

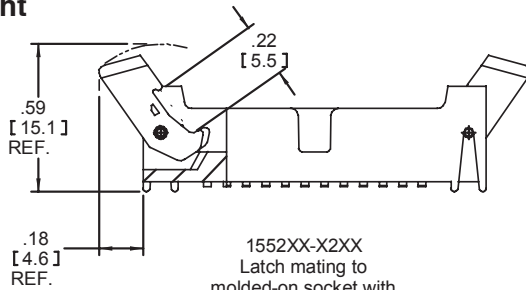
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# 3M™ Latch/Eject Header

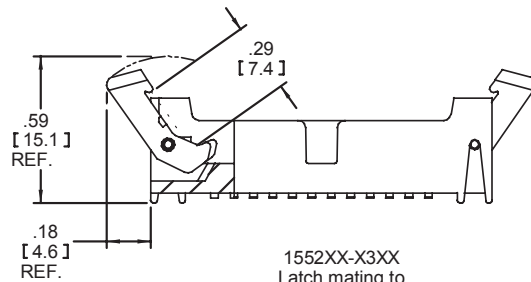
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

1552 Series

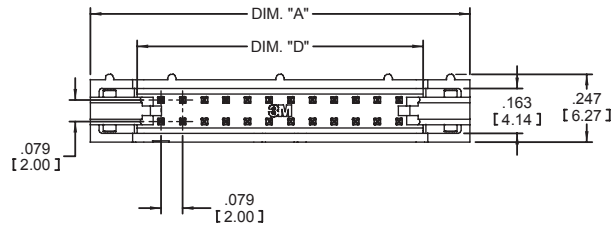
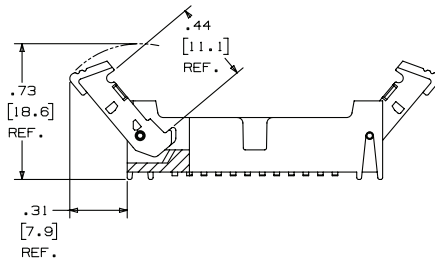
## Straight



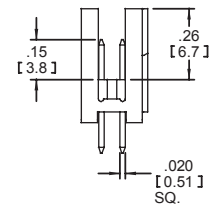
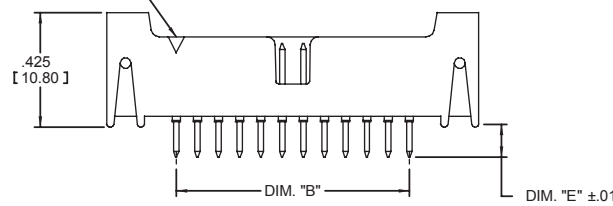
See Chart 1 for latch availability.



See Chart 1 for latch availability.



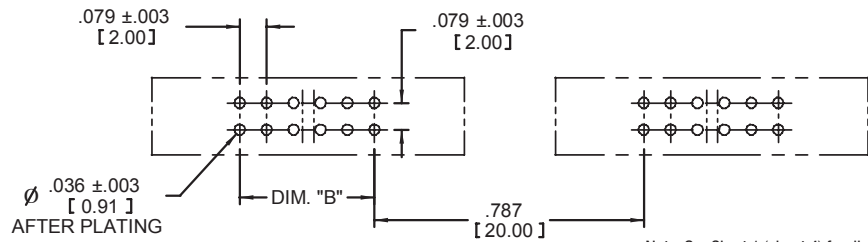
POSITION #1  
ORIENTATION  
TRIANGLE



Tolerance Unless Noted			
Inch	.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 μ" [0.76 μm] Gold
- RA = 10 μ" [0.25 μm] Gold
- (RIA E1 & C1 apply) (both platings)

TS-2199-K  
Sheet 2 of 4

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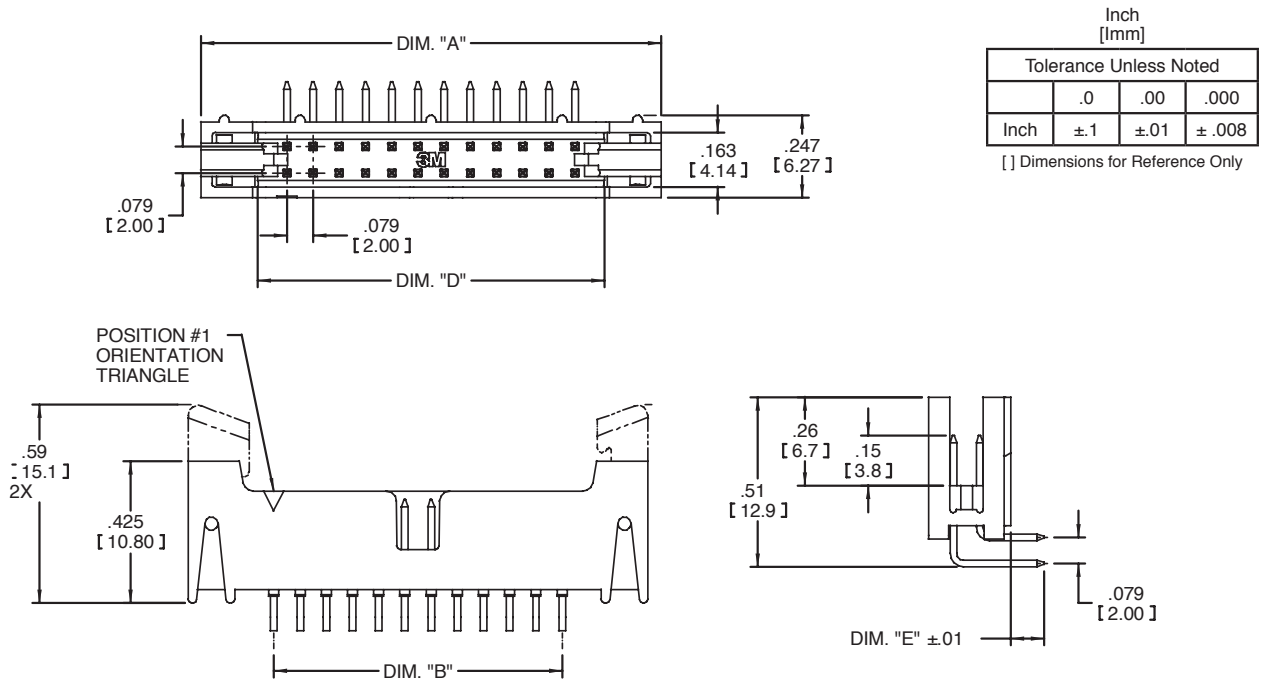
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# 3M™ Latch/Eject Header

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

1552 Series

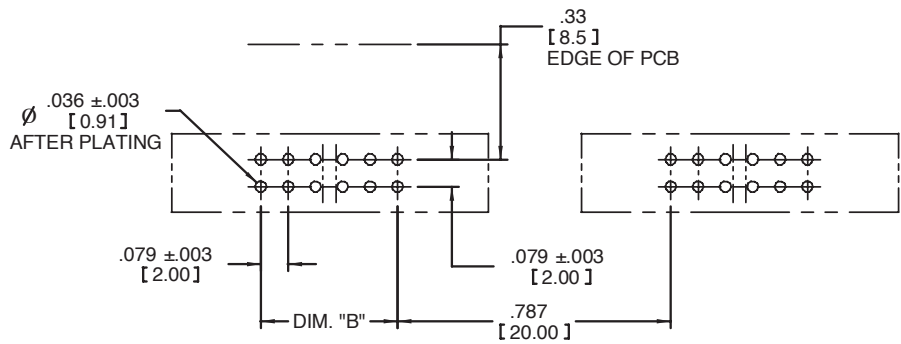
## Right Angle



Inch [Imm]			
Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.008

[ ] Dimensions for Reference Only

## 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

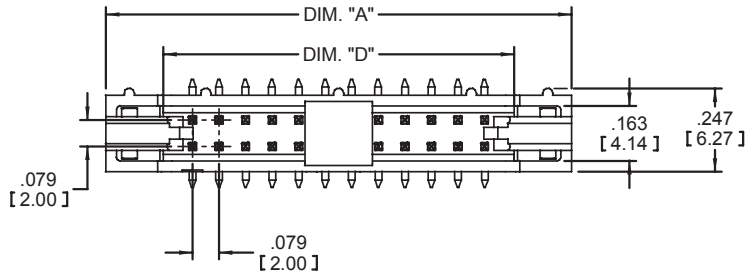
Contact Quantity (See Table)	_____	Plating Options: RB = 30 μ" [0.76 μm] Gold RA = 10 μ" [0.25 μm] Gold (RIA E1 & C1 apply) (both platings)
Latching:	_____	Solder Tail Length: Dimension "E" 2 = .112" [2.84] 3 = .155" [3.94]
2 = Latch, molded on skt with latching ear, 870, 2M Series 3 = Latch, press on skt, 1522 Series 4 = Latch, 2 mm, SCI carrier only Note: See Chart 1 (sheet 4) for latching availability		

TS-2199-K  
Sheet 3 of 4

# 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

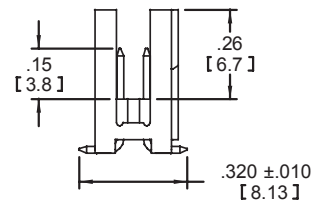
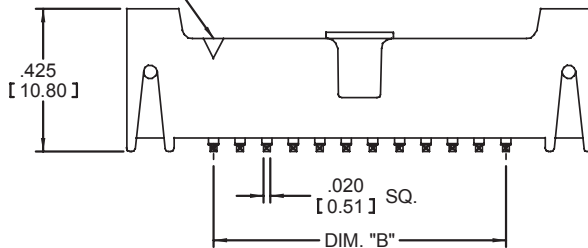
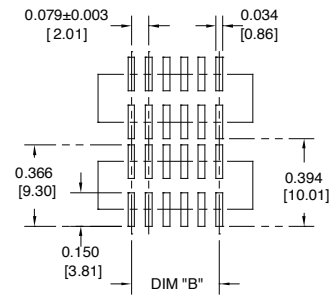


Chart 1

Contact Quantity	Dim. "A" ± 0.008	Dim "B" ± 0.006	Dim "D" ± 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)

TS-2199-K  
 Sheet 4 of 4

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