

# 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  
Interconnect Solutions  
<http://www.3Mconnectors.com>

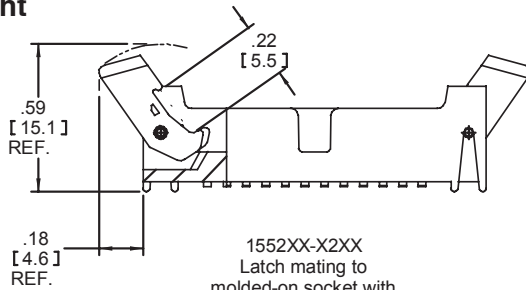
3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Latch/Eject Header

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

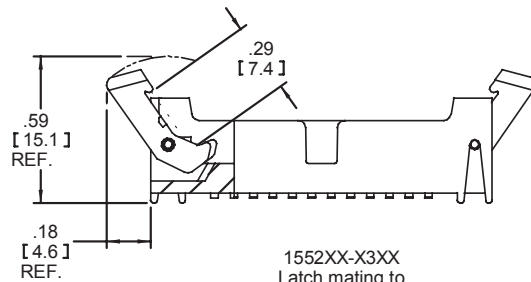
1552 Series

## Straight



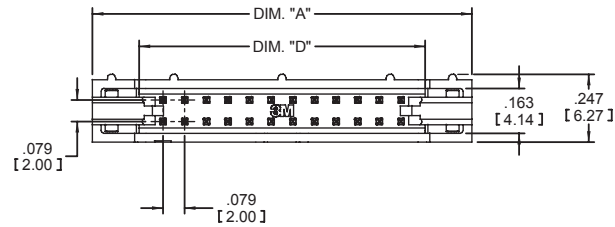
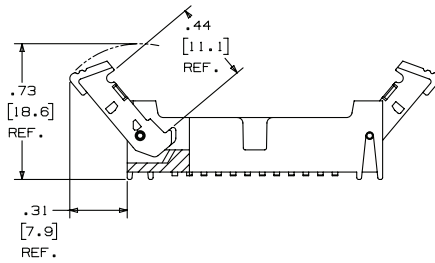
1552XX-X2XX  
Latch mating to  
molded-on socket with  
latching ear

See Chart 1 for latch availability.

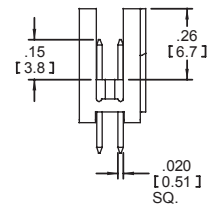
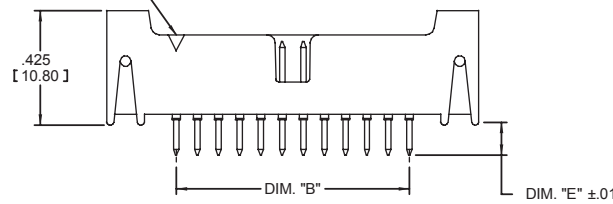


1552XX-X3XX  
Latch mating to  
press-on socket

See Chart 1 for latch availability.



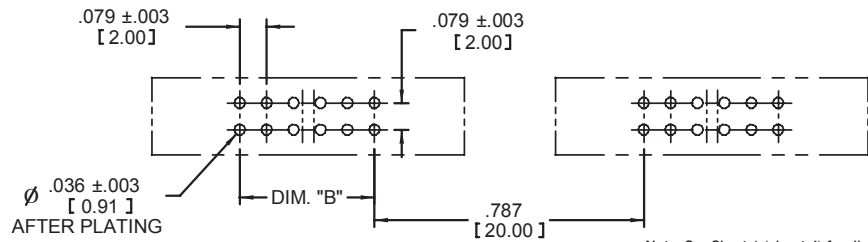
POSITION #1  
ORIENTATION  
TRIANGLE



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

3M

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

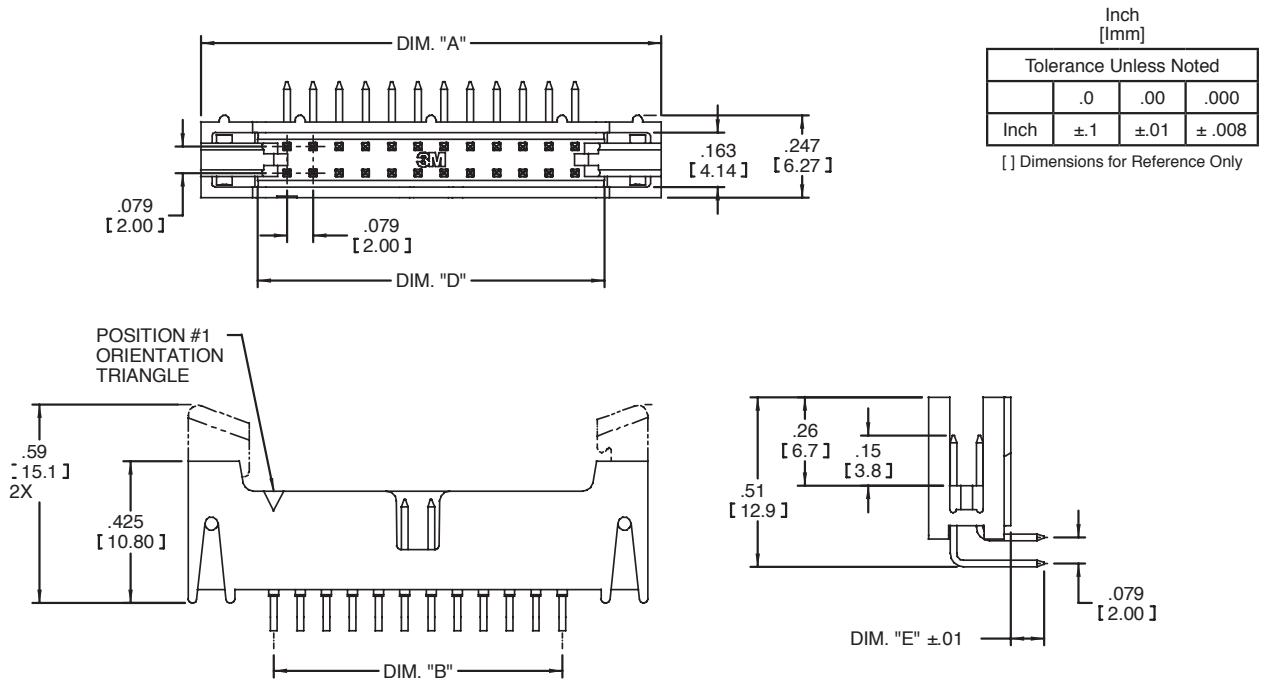
3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Latch/Eject Header

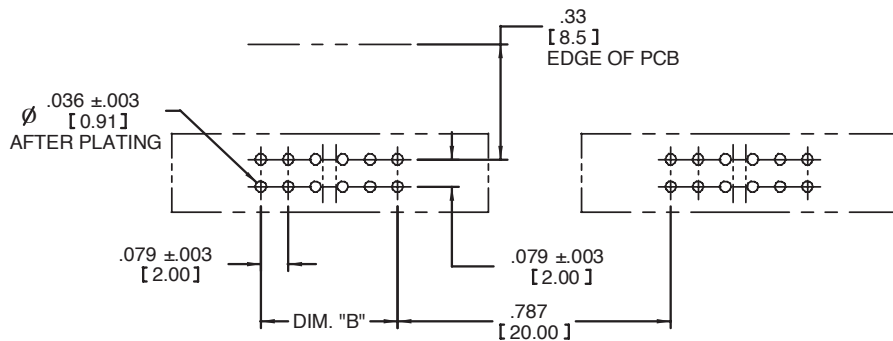
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

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]

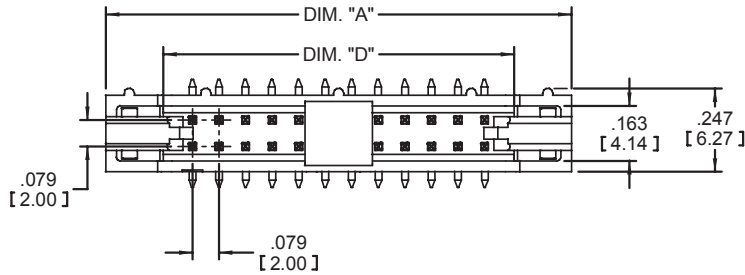
Plating Options:  
RB = 30 μ" [0.76 μm] Gold  
RA = 10 μ" [0.25 μm] Gold  
(RIA E1 & C1 apply) (both platings)

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

[ ] Dimensions for Reference Only

POSITION #1  
ORIENTATION  
TRIANGLE

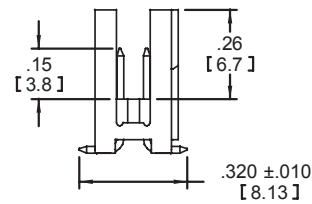
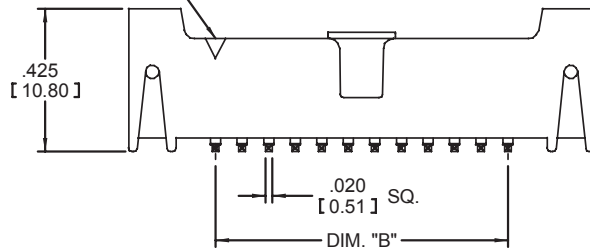
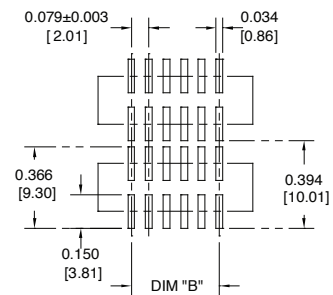


Chart 1

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

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

**Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

Please recycle. Printed in USA.  
© 3M 2012. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.