

# 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 maintains a secure connection
- Roll pins retain latches to body in shipping and high vibration environments
- Ejector helps make removal of assemblies easy
- Latch design helps resist breakage during eject
- High temperature insulators suitable for "lead free" processing and meet JEDEC J-STD-020C
- 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. Latch option 2 and 3.
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: July 5, 2010

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## Physical

### Insulation:

Material: Glass Filled Polyester (PCT)

Flammability: UL 94V-0

Color: Black

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50  $\mu$ " [ 1.27  $\mu$ m ] Nickel

Wiping Area: See Ordering Information

Solder Tails: 200  $\mu$ " [ 5.0  $\mu$ m ] Matte Tin

## Electrical

**Current Rating:** 1A

**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-020C)

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

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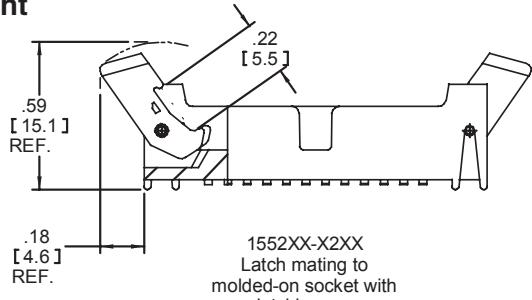
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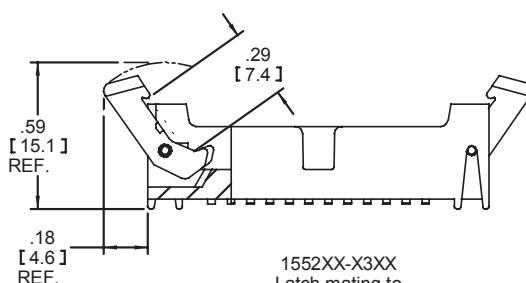
1552 Series

## Straight



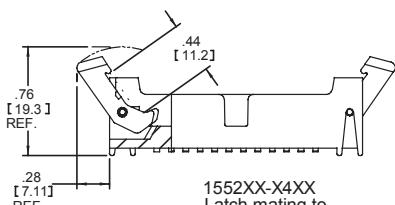
1552XX-X2XX  
Latch mating to  
molded-on socket with  
latching ear

See Chart 1 for latch availability.



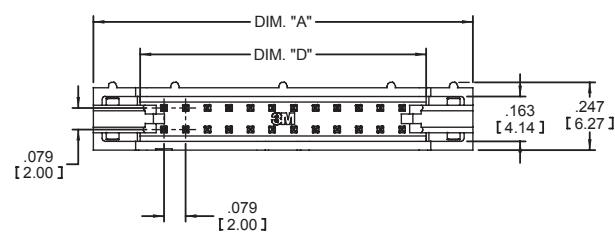
1552XX-X3XX  
Latch mating to  
press-on socket

See Chart 1 for latch availability.



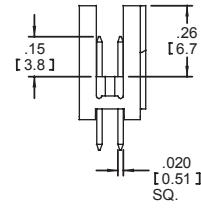
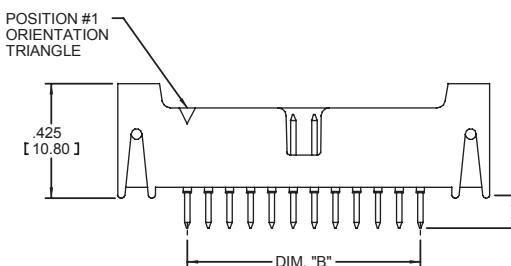
1552XX-X4XX  
Latch mating to  
SCI Carrier

See Chart 1 for latch availability.

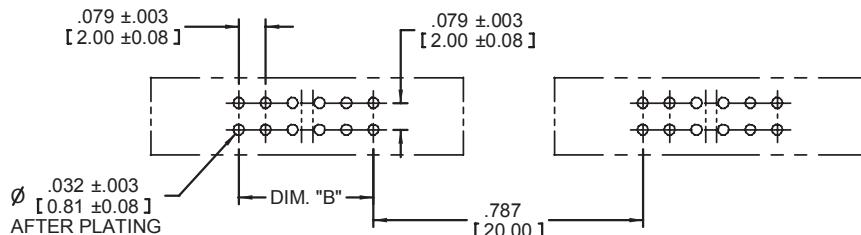


Inch [mm]			
Tolerance Unless Noted			
Inch	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[ ] 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  
3 = Latch, press on skt  
4 = Latch, 2 mm SCI Carrier Only

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

Plating Options:  
RB = 30  $\mu$ " [ 0.76  $\mu$ m ] Gold  
RA = 10  $\mu$ " [ 0.25  $\mu$ m ] Gold  
(RIA E1 & C1 apply) (both platings)

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

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Sheet 2 of 4

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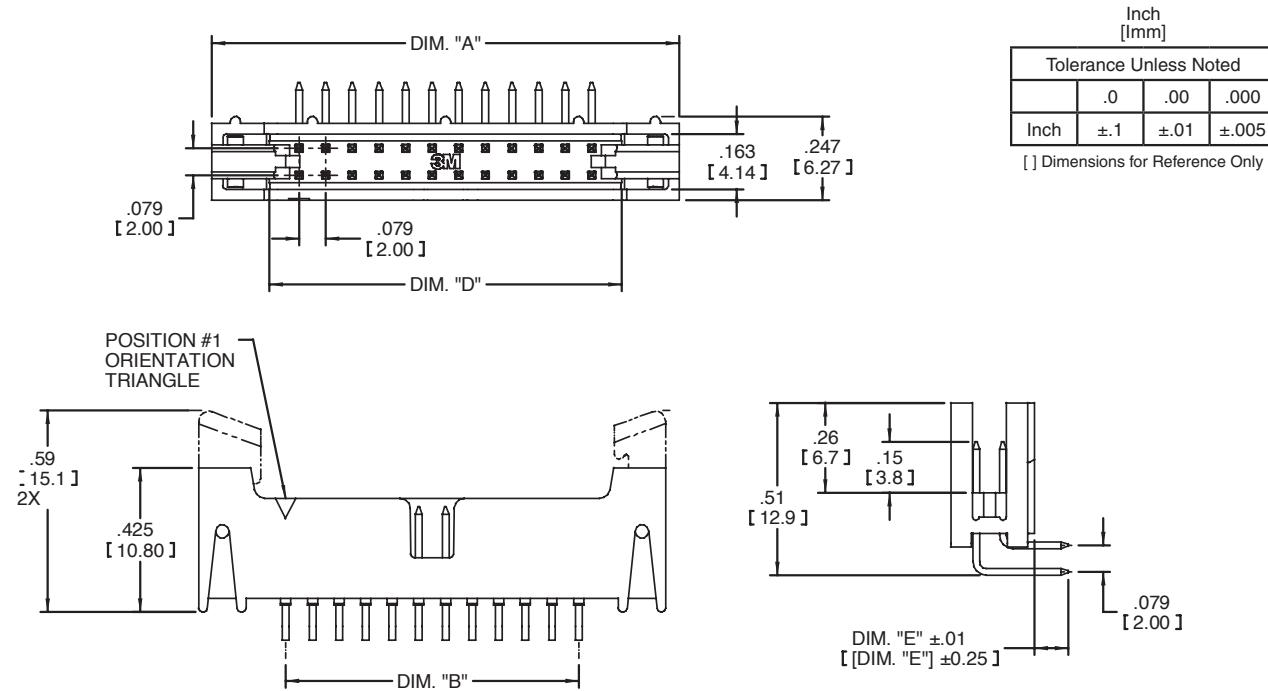
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# 3M™ Latch/Eject Header

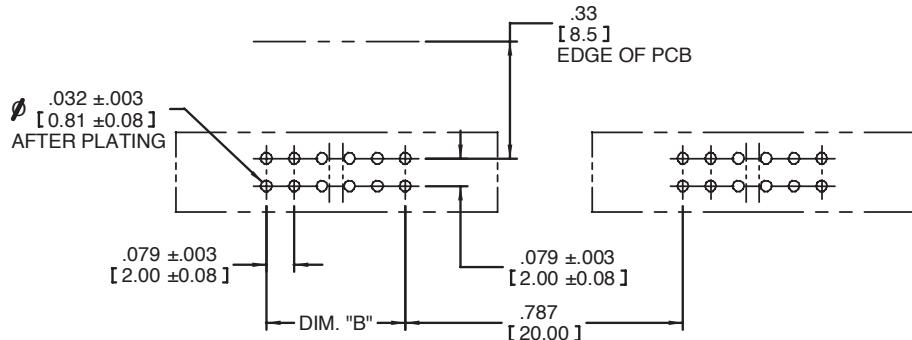
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

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  
3 = Latch, press on skt

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  $\mu$ " [ 0.76  $\mu$ m ] Gold  
RA = 10  $\mu$ " [ 0.25  $\mu$ m ] Gold  
(RIA E1 & C1 apply) (both platings)

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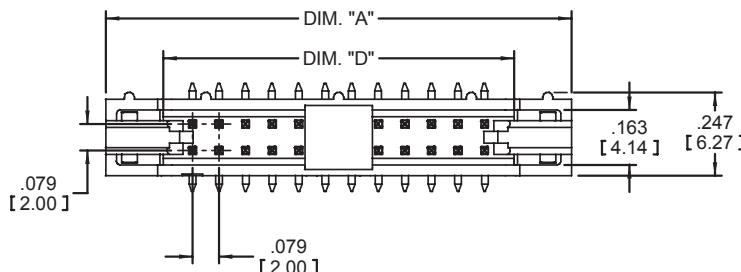
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# 3M™ Latch/Eject Header

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1552 Series



## Surface Mount Vertical

Tolerance Unless Noted			
	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$
[ ] Dimensions for Reference Only			

POSITION #1  
ORIENTATION  
TRIANGLE

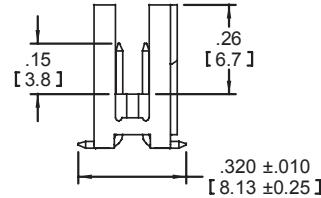
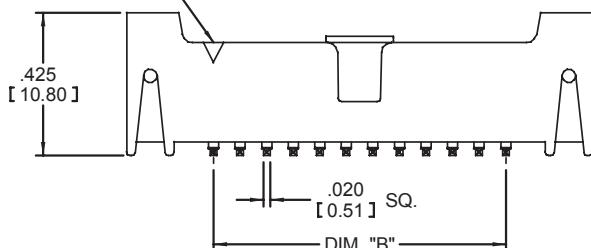
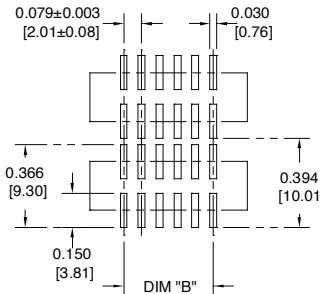


Chart 1

Contact Quantity	Dim. "A"	Dim "B"	Dim "D"	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  
3 = Latch, press on skt  
4 = Latch, 2 mm SCI carrier only

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

Plating Options:

RB = 30  $\mu$ " [ 0.76  $\mu$ m ] Gold  
RA = 10  $\mu$ " [ 0.25  $\mu$ m ] Gold  
(RIA E1 & C1 apply) (both platings)

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### **3M Electronics Solutions Division**

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

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