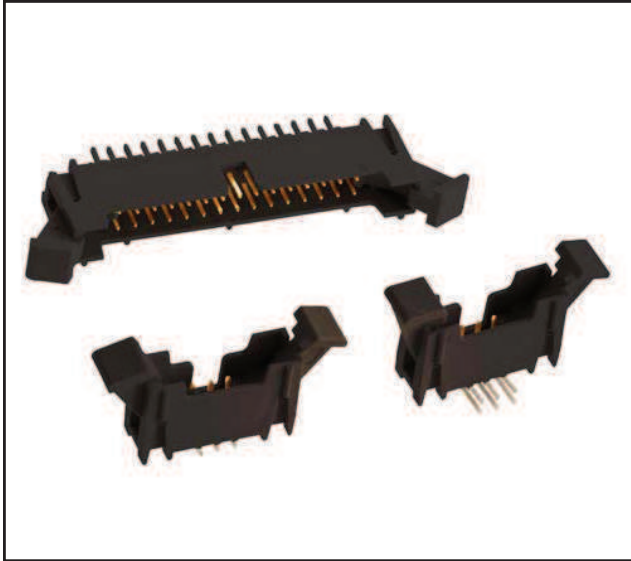


3M™ Latch/Eject Header

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 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_{DC}

Withstanding Voltage: 1,000 V_{RMS} 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>

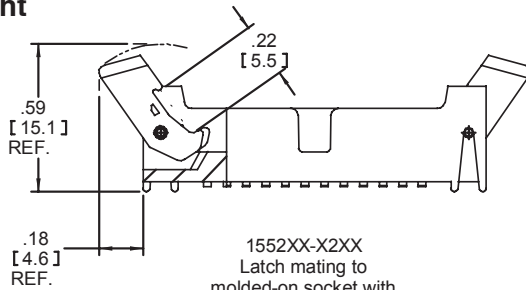
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3M™ Latch/Eject Header

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

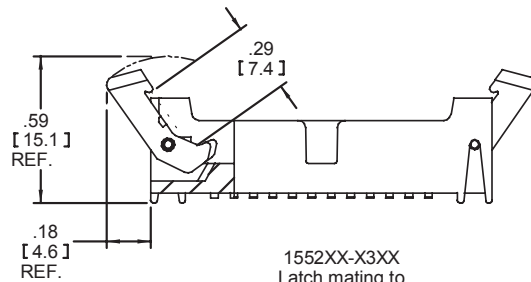
1552 Series

Straight



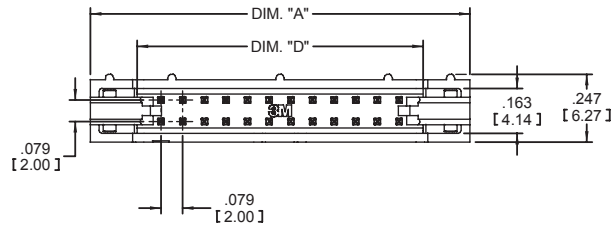
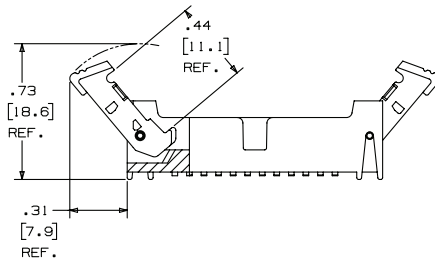
1552XX-X2XX
Latch mating to
molded-on socket with
latching ear

See Chart 1 for latch availability.

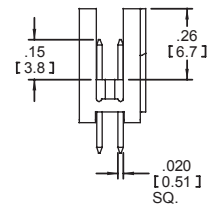
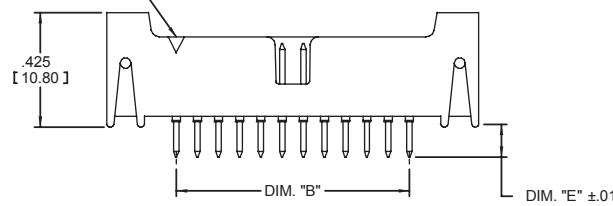


1552XX-X3XX
Latch mating to
press-on socket

See Chart 1 for latch availability.



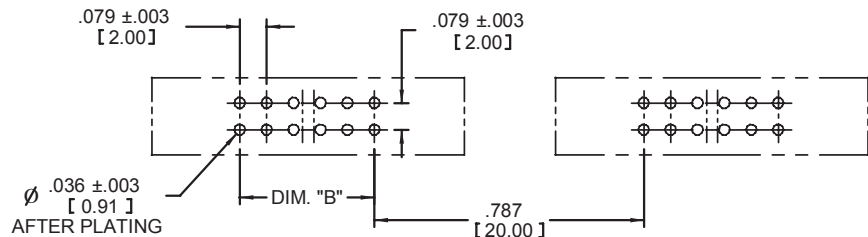
POSITION #1
ORIENTATION
TRIANGLE



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)

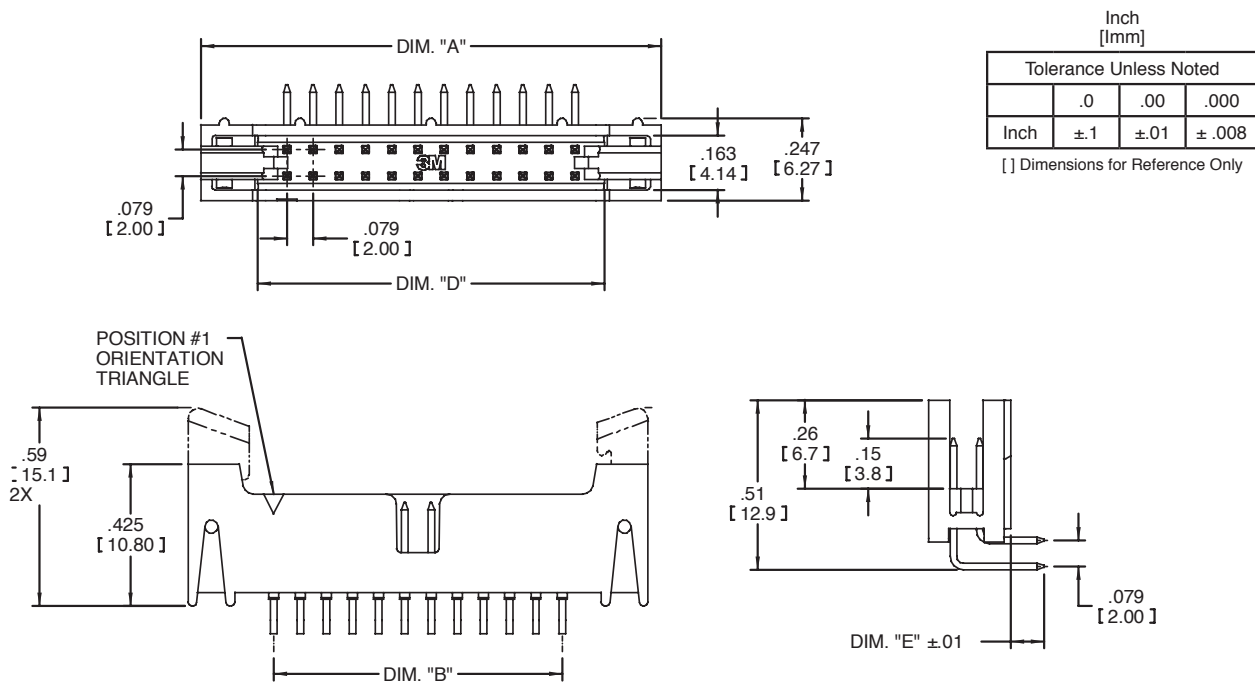
TS-2199-K
Sheet 2 of 4

3M™ Latch/Eject Header

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

1552 Series

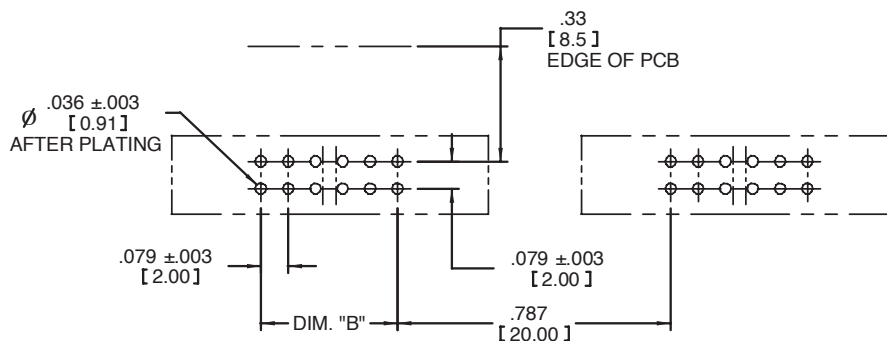
Right Angle



Tolerance Unless Noted			
Inch	.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)

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:

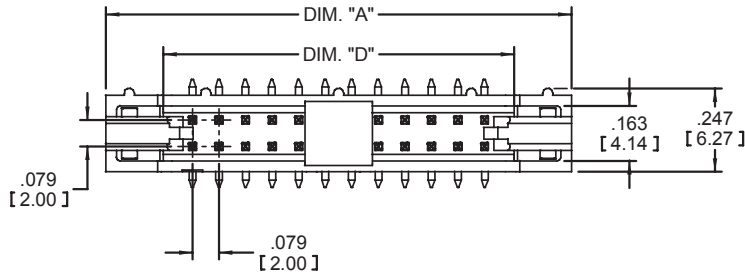
- RB = 30 µ" [0.76 µm] Gold
 - RA = 10 µ" [0.25 µm] Gold
- (RIA E1 & C1 apply) (both platings)

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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

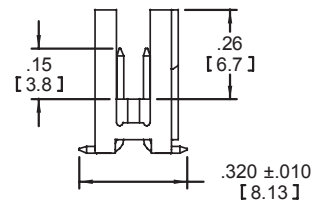
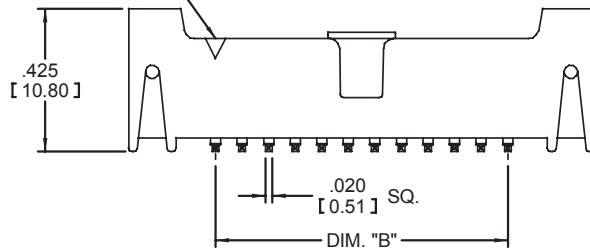
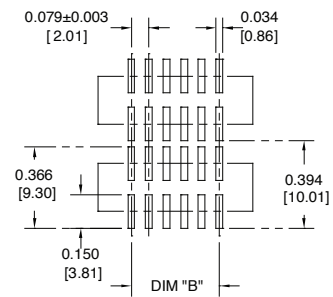


Chart 1

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 SCL 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 SCL 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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