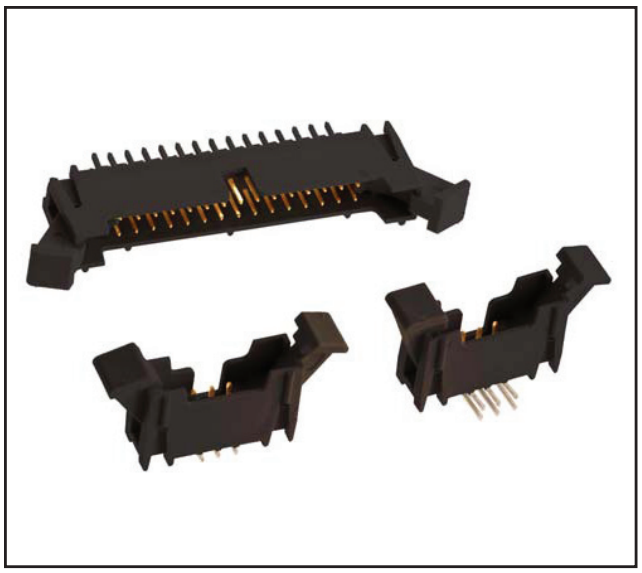
3M™ Latch/Eject Header

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

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)

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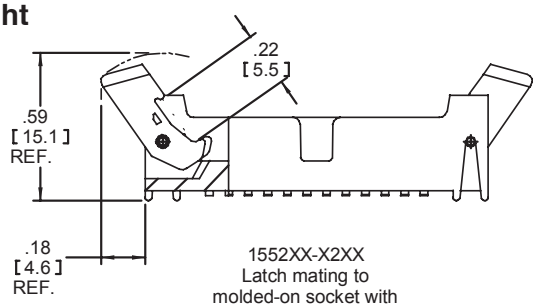
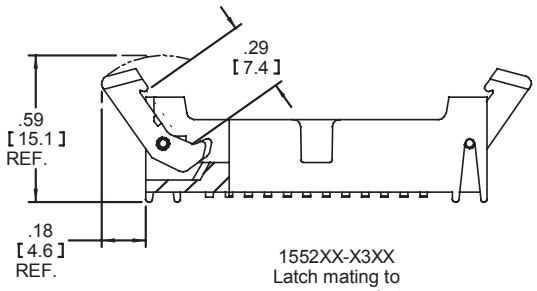
Straight



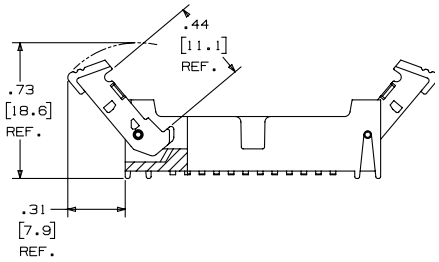
1552XX-X2XX
Latch mating to
molded-on socket with
latching ear

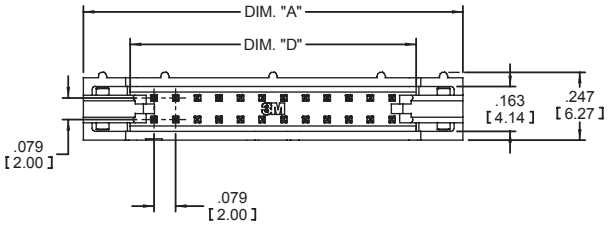
See Chart 1 for latch availability.

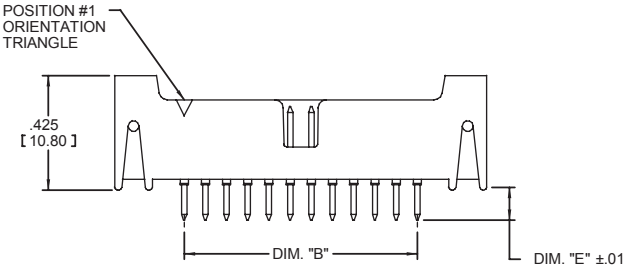


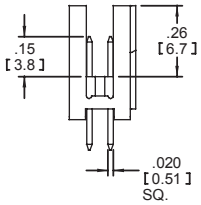
1552XX-X3XX
Latch mating to
press-on socket

See Chart 1 for latch availability.







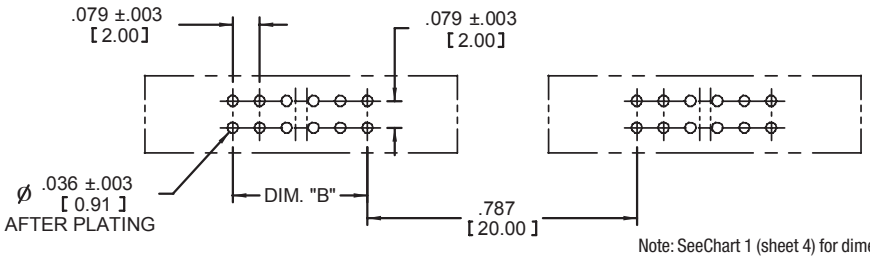


Inch
[Imm]

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

[ ] Dimensions for Reference Only

PC Board Footprint



Note: SeeChart 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)

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Interconnect Solutions
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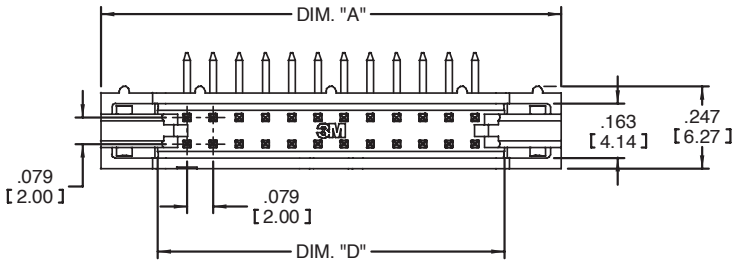
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount 1552 Series

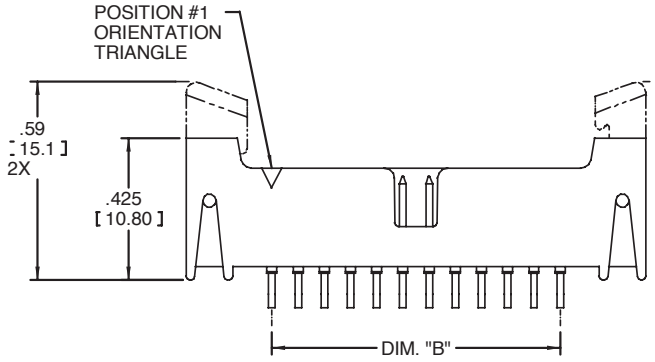
Right Angle

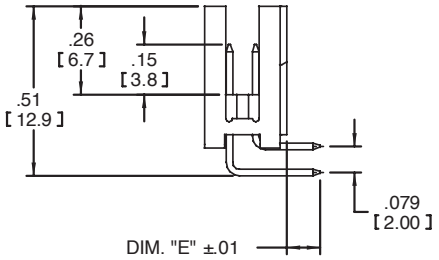


Inch
[Imm]

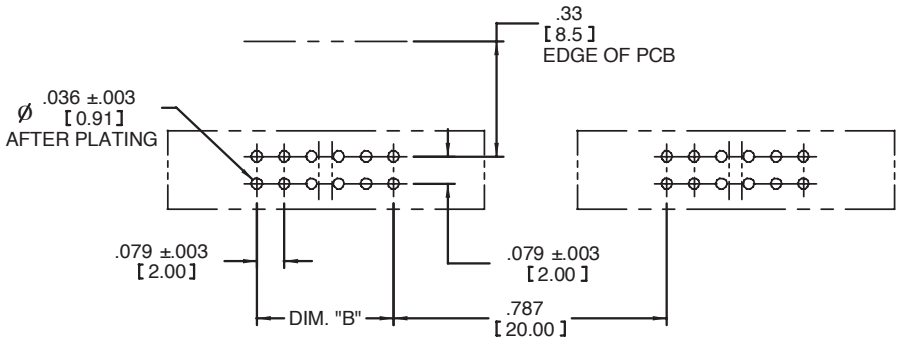
Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	± .008

[ ] 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)

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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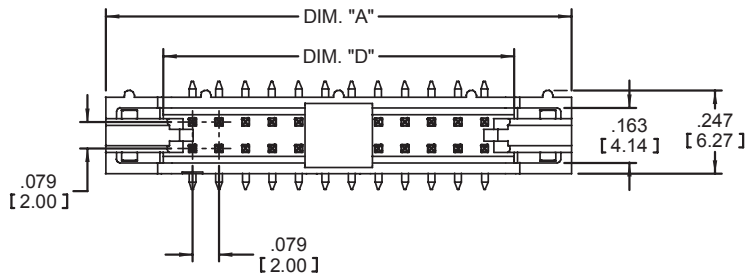
3M™ Latch/Eject Header

2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount 1552 Series

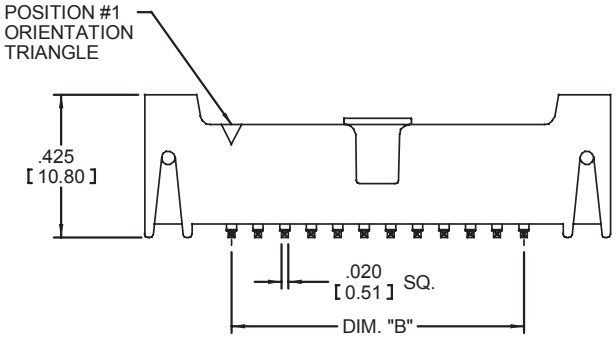
Surface Mount Vertical



Inch
[Imm]

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

[ ] Dimensions for Reference Only



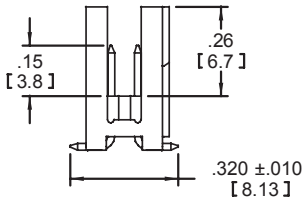
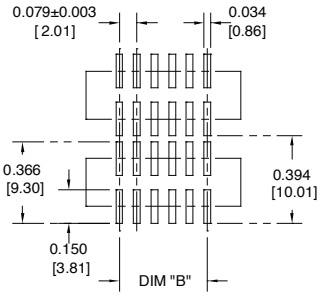


Chart 1

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

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

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

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