



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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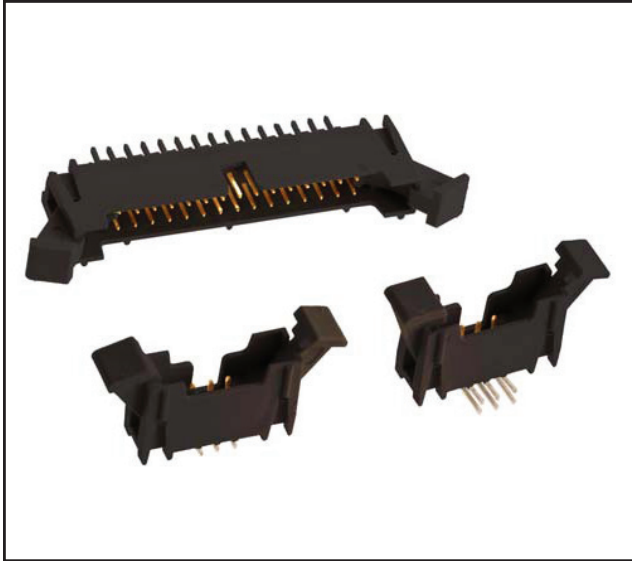
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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)



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

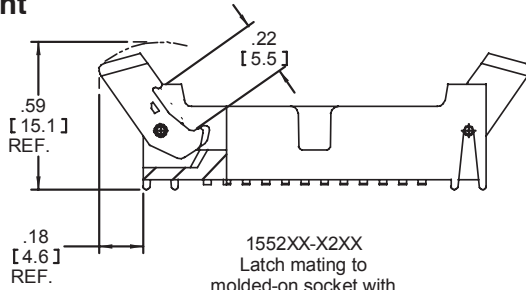
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3M™ Latch/Eject Header

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

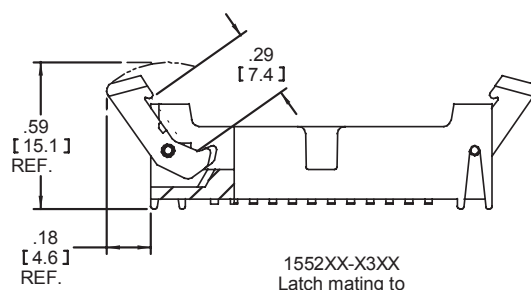
1552 Series

Straight



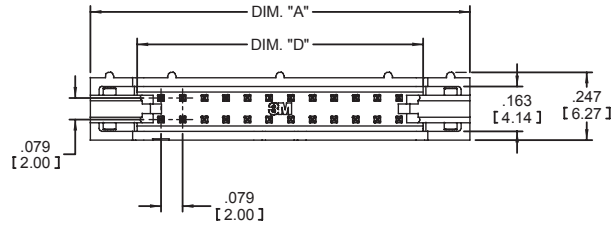
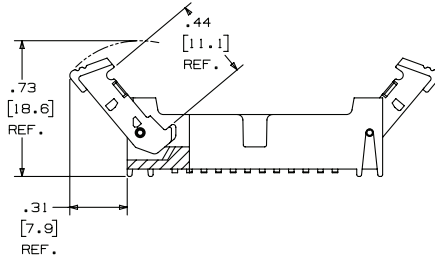
1552XX-X2XX
Latch mating to
molded-on socket with
latching ear

See Chart 1 for latch availability.

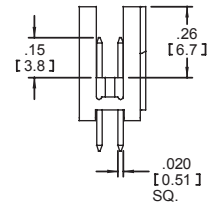
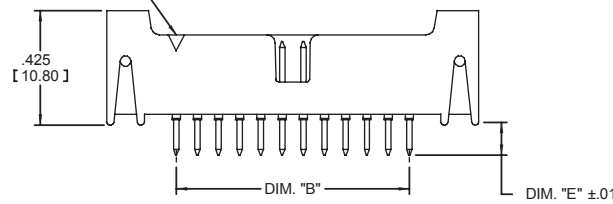


1552XX-X3XX
Latch mating to
press-on socket

See Chart 1 for latch availability.



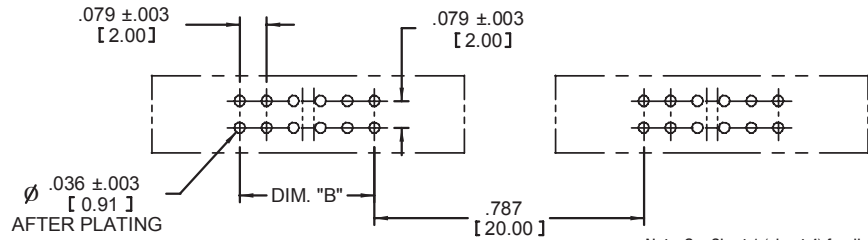
POSITION #1
ORIENTATION
TRIANGLE



Inch [mm]			
Tolerance Unless Noted			
	.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

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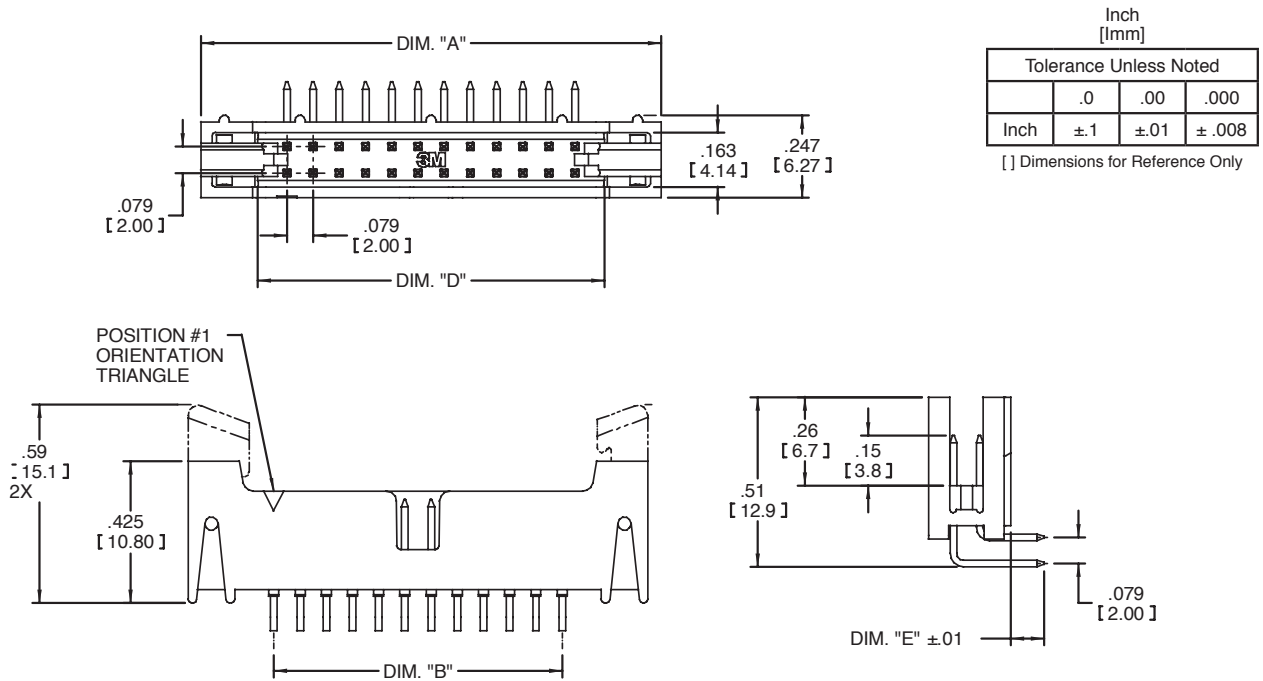
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3M™ Latch/Eject Header

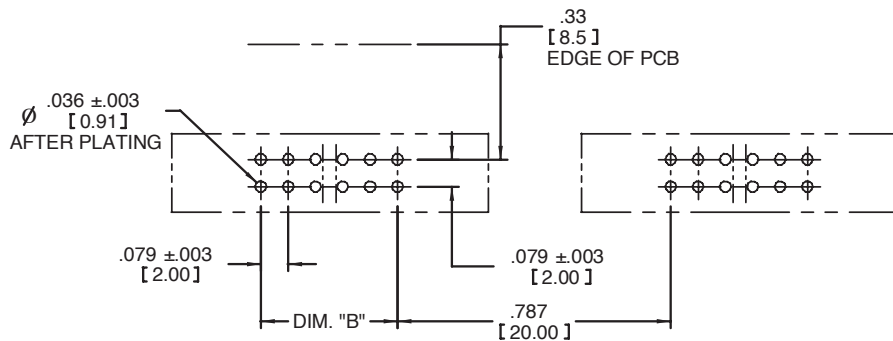
2 mm x 2 mm Straight & Right Angle, Through-Hole, Straight, Surface Mount

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, 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]

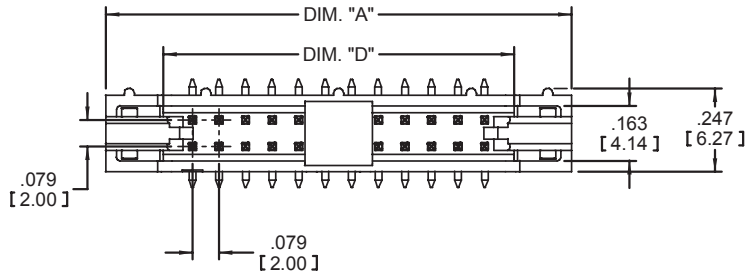
Plating Options:
RB = 30 μ" [0.76 μm] Gold
RA = 10 μ" [0.25 μm] Gold
(RIA E1 & C1 apply) (both platings)

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

[] Dimensions for Reference Only

POSITION #1
ORIENTATION
TRIANGLE

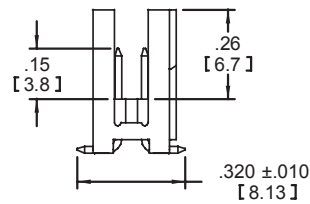
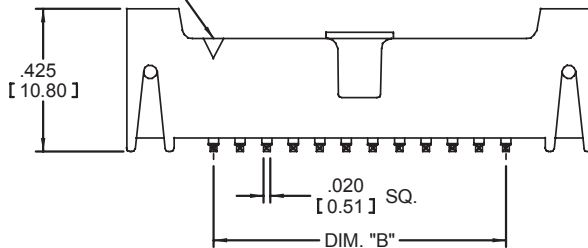
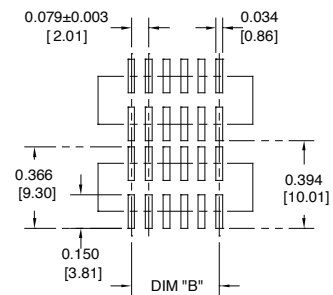


Chart 1

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 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)

TS-2199-K
 Sheet 4 of 4

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**3M Electronics Solutions Division**

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
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