

3M™ LATCH/EJECT HEADER, 1552 SERIES
 2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



5 1552XX-X20X
 LATCH MATING FOR
 MOLDED-ON SOCKET
 WITH LATCHING EAR



5 1552XX-X30X
 LATCH MATING FOR
 PRESS-ON SOCKET



5 1552XX-X40X
 LATCH MATING FOR
 2MM SCI CARRIER

3 ELECTRICAL PERFORMANCE:

CURRENT RATING: 4.75A, 1 LINE POWERED
 2.00A, 6 ADJACENT LINES POWERED
 1.25A, 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: > 1X10⁹ OHMS AT 500 V_{DC}
 WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
 WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

3 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)

- * 14 PIN COUNTS RANGING FROM 06 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.

- NOTES
1. MATERIAL:
 PLASTIC:
 GLASS FILLED POLYESTER (LCP)
 UL94V-0, BLACK
 CONTACT: COPPER ALLOY.
 2. PLATING:
 50μ NICKEL UNDERPLATING
 WIPE AREA: SEE ORDERING INFO.
 SOLDER TAIL: 200μ MATTE TIN.
 3. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 4. REGULATORY INFORMATION:
 VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
 5. SEE TABLE 1 FOR LATCH AVAILABILITY.
 6. MATING COMPATIBILITY SERIES:
 1522, 870, 2M AND 2MM SCI CARRIER (93XX).
 7. SURFACE MOUNT VERSION: ORDER CODE APPLIES TO THE TAPE AND REEL WIDTH.

TABLE 1

| CONTACT QTY. | DIM. "A" | DIM. "B" | DIM. "D" | LATCH OPTION | TAPE WIDTH | ORDER CODE | CONTACT QTY. |
|--------------|---------------|---------------|---------------|--------------|------------|------------|--------------|
| 06 | .673 [17.09] | .157 [4.00] | .333 [8.45] | 2, 4 | 44 MM | WD | 06 |
| 08 | .752 [19.10] | .236 [6.00] | .411 [10.44] | 2, 4 | 44 MM | WD | 08 |
| 10 | .831 [21.10] | .315 [8.00] | .490 [12.45] | 2, 3, 4 | 44 MM | WD | 10 |
| 12 | .910 [23.10] | .394 [10.00] | .569 [14.45] | 3, 4 | 44 MM | WD | 12 |
| 16 | 1.067 [27.10] | .551 [14.00] | .726 [18.44] | 2, 4 | 56 MM | WE | 16 |
| 20 | 1.224 [31.09] | .709 [18.00] | .884 [22.45] | 2, 3, 4 | 56 MM | WE | 20 |
| 22 | 1.303 [33.10] | .787 [20.00] | .963 [24.46] | 2, 4 | 56 MM | WE | 22 |
| 24 | 1.382 [35.10] | .866 [22.00] | 1.041 [26.44] | 2, 4 | 56 MM | WE | 24 |
| 26 | 1.461 [37.10] | .945 [24.00] | 1.120 [28.45] | 2, 3, 4 | 72 MM | WF | 26 |
| 30 | 1.618 [41.10] | 1.102 [28.00] | 1.278 [32.46] | 2, 4 | 72 MM | WF | 30 |
| 34 | 1.774 [45.09] | 1.260 [32.00] | 1.435 [36.46] | 2, 4 | 72 MM | WF | 34 |
| 40 | 2.012 [51.10] | 1.496 [38.00] | 1.671 [42.44] | 2, 3, 4 | 72 MM | WF | 40 |
| 44 | 2.169 [55.09] | 1.654 [42.00] | 1.829 [46.46] | 2, 3, 4 | 88 MM | WG | 44 |
| 50 | 2.405 [61.09] | 1.980 [48.00] | 2.065 [54.45] | 2, 3, 4 | 88 MM | WG | 50 |



TYPICAL CONNECTOR DIMENSIONS FOR THE HEADERS ON THIS DRAWING (EXCEPT AS NOTED)

DIMENSIONS: MM [INCHES]

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
 INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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| | | | | | | |
|---|---------------------------------|--|--------------|---|--------------|--------------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | | | |
| DIVISION | DIVISION CODE | DATE | DATE | DATE | DATE | DATE |
| | EMSD | JAN 21, 2015 | JAN 21, 2015 | JAN 21, 2015 | JAN 21, 2015 | JAN 21, 2015 |
| DO NOT SCALE DRAWING | SCALE 4/1 | TOLERANCES EXCEPT AS NOTED | | INCHES .00 ± .01 .000 ± .008 .0000 ± MILLIMETERS 0 ± .3 .00 ± .20 .000 ± | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | MAX SURFACE ROUGHNESS SURFACES MARKED ONLY | | © 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. | | |
| TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT | | CAGE NUMBER | SIZE | DRAWING NO. | REV. | |
| | | D | | 78-5100-2199-7 | L | |
| MODEL | | 1552 | DET | 1515 | YES | NO |
| | | | | | SHT | 1 OF 4 |

78-5100-2199-7
 DRAWING NUMBER
 17/2017UTC
 Offset
 L 58601
 AUG 11, 2016
 8-11-16 ADD SHT 4
 REVISE TRADEMAK NOTE
 JUN 01, 2016
 PRODUCTION RELEASE,
 APR 29, 2016
 JNC RS

3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

STRAIGHT VERSION



ORDERING INFORMATION
1552XX-6X0X-XX

CONTACT QUANTITY: 2 3 4

LATCHING OPTIONS:
2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES: 93XX

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

SOLDER TAIL LENGTH:
DIMENSION "E"
2 = .112 [2.84]
3 = .155 [3.94]

RECOMMENDED PC BOARD PATTERN (VIEWED FROM CONNECTOR SIDE)

STRAIGHT VERSION WITH INTERSTITIAL GROUNDS



ORDERING INFORMATION
G1552XX-6X0X-XX

CONTACT QUANTITY: 2 3 4

LATCHING OPTIONS:
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

SOLDER TAIL LENGTH:
DIMENSION "E"
2 = .112 [2.84]

RECOMMENDED PC BOARD PATTERN (VIEWED FROM CONNECTOR SIDE)

| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|------------------------|---------------------------------|--|------|----------------------------|------|------------------------|
| | | | | | | |
| DATE | DATE | DATE | DATE | DATE | DATE | DATE |
| CHKD | DATE | APPV | DATE | DATE | DATE | DATE |
| | | | | | | |
| DIVISION | DIVISION CODE | | | | | |
| DO NOT SCALE DRAWING | SCALE 4/1 | TOLERANCES EXCEPT AS NOTED INCHES .0 ±.01 .000 ±.008 .0000 ± MILLIMETERS 0 ± .0 ±.3 .00 ±.20 .000 ± | | | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT | | | | |
| MAX SURFACE ROUGHNESS | DT SURFACES | CAGE NUMBER | SIZE | DRAWING NO. | REV. | |
| MARKED ONLY | ANGLES | D | | 78-5100-2199-7 | L | |
| | | MODEL | | 1552 | DET | ISTS YES NO SHT 2 OF 4 |

78-5100-2199-7 REV. 01
DRAWING NUMBER
Standard Time5/17/2017UTC Offset

3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

RIGHT ANGLE VERSION



RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

1552XX-5X0X-XX

CONTACT QUANTITY: []

- LATCHING OPTIONS:
- 2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
 - 3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
 - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

- PLATING OPTIONS:
- RB = 30µIN [.76µm] GOLD
 - RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

- SOLDER TAIL LENGTH:
DIMENSION "E"
- 2 = .112 [2.84]
 - 3 = .155 [3.94]

SURFACE MOUNT VERSION

NOTES:

- 1) TAPE & REEL PARTS ALWAYS SUPPLIED WITH VACUUM PICK-UP CAP.
- 2) TAPE & REEL NOT AVAILABLE WITH SCI LATCH OPTION.
- 3) TRAY PARTS SUPPLIED WITHOUT VACUUM PICK-UP CAP.



RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

1552XX-2X00-XX-XX

CONTACT QUANTITY: []

- LATCHING OPTIONS:
- 2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
 - 3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
 - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

- PACKAGING:
BLANK = TRAYS
WX = TAPE & REEL
(SEE TABLE 1 ORDER CODE)

- PLATING OPTIONS:
- RB = 30µIN [.76µm] GOLD
 - RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|---------------------------------|------------------------------------|---|--|----------------------------|-------------|--------------------------|
| | | | | | | |
| DATE | DATE | DATE | DATE | DATE | DATE | DATE |
| CHKD | APPV | DATE | DATE | DATE | DATE | DATE |
| | | | | | | |
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| INTERPRET PER ASME Y14.5 - 2009 | MAX SURFACE ROUGHNESS | MARKED ONLY | CAGE NUMBER | SIZE | DRAWING NO. | REV. |
| | | | D | 78-5100-2199-7 | L | |
| | | | MODEL | 1552 | DET | ISTS YES X NO SHT 3 OF 4 |

Imaged: L.6 Central Standard Time 5/17/2017 UTC OffSet

3M™ LATCH/EJECT HEADER, 1552 SERIES
 2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

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| MAX SURFACE ROUGHNESS | MARKED SURFACES | INCHES | | CAGE NUMBER D78-5100-2199-7 REV. L MODEL 1552 DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 4 OF 4 | | |
| | | .00 ± .01 .000 ± .008 .0000 ± | | | | |
| | | 0 ± .3 .00 ± .20 .000 ± | | | | |
| | | 0 ± | | | | |

78-5100-2199-7 DRAWING NUMBER
 1552
 Standard Time5/17/2017UTC Offrset

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