

# 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: > 1X10<sup>9</sup> OHMS AT 500 V<sub>DC</sub>  
WITHSTANDING VOLTAGE (1552XX): 1000 V<sub>RMS</sub> AT SEA LEVEL  
WITHSTANDING VOLTAGE (G1552XX): 750 V<sub>RMS</sub> 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.

| 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 ±                                                                                                                                                                                                                 |              |              |
|                      |               |                                                      |              | ANGLES                                                                                                                                                                                                                 |              |              |
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| L 58601              |               | AUG 11, 2016                                         |              | JNC                                                                                                                                                                                                                    |              | RS           |
|                      |               | 8-11-16 ADD SHT 4                                    |              |                                                                                                                                                                                                                        |              |              |
|                      |               | REVISE TRADEMAKING NOTE                              |              |                                                                                                                                                                                                                        |              |              |
|                      |               | JUN 01, 2016                                         |              |                                                                                                                                                                                                                        |              |              |
|                      |               | PRODUCTION RELEASE,                                  |              |                                                                                                                                                                                                                        |              |              |
|                      |               | APR 29, 2016                                         |              |                                                                                                                                                                                                                        |              |              |
| TITLE                |               | LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT |              |                                                                                                                                                                                                                        |              |              |
| CAGE NUMBER          | SIZE          | DRAWING NO.                                          | REV.         |                                                                                                                                                                                                                        |              |              |
| D                    |               | 78-5100-2199-7                                       | L            |                                                                                                                                                                                                                        |              |              |
| MODEL                | 1552          | DET                                                  | ISTS         | YES                                                                                                                                                                                                                    | NO           | SHT 1 OF 4   |

78-5100-2199-7  
DRAWING NUMBER  
Imaged: L.6 Central Time5/17/2017UTC Offset

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 |
|------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|------|------|
|                        |                                 |                                                                                                                                                                                                                                                                                    |                                                                   |                            |      |      |
| APPROVED               |                                 | CASTIGLIONE                                                                                                                                                                                                                                                                        |                                                                   | JAN 21, 2015               |      |      |
| CHKD                   |                                 |                                                                                                                                                                                                                                                                                    |                                                                   | JAN 21, 2015               |      |      |
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| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS                                                                                                                                                                                                                                                                        | 0 ±<br>.0 ±.3<br>.00 ±.20<br>.000 ±                               |                            |      |      |
| MAX SURFACE ROUGHNESS  | MARKED ONLY                     | ANGLS                                                                                                                                                                                                                                                                              | CAGE NUMBER D78-5100-2199-7<br>MODEL 1552<br>REV. L<br>SHT 2 OF 4 |                            |      |      |

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                     |
|---------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------|-------------|--------------------------|
|                                 |                                     |                                                                                                                                                                                                                                                 |                                                            |                            |             |                          |
| APPROVED                        | DATE                                | DATE                                                                                                                                                                                                                                            | DATE                                                       | DATE                       |             |                          |
| CHKD                            | DATE                                | DATE                                                                                                                                                                                                                                            | DATE                                                       | DATE                       |             |                          |
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| THIRD ANGLE PROJECTION          | INCHES .00 ±.01 .000 ±.0008 .0000 ± | MILLIMETERS 0 ± .3 .00 ±.20 .000 ±                                                                                                                                                                                                              | TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT |                            |             |                          |
| INTERPRET PER ASME Y14.5 - 2009 | MAX SURFACE ROUGHNESS               | MARKED SURFACES                                                                                                                                                                                                                                 | CAGE NUMBER                                                | SIZE                       | DRAWING NO. | REV.                     |
|                                 |                                     |                                                                                                                                                                                                                                                 | D                                                          | 78-5100-2199-7             | L           |                          |
|                                 |                                     |                                                                                                                                                                                                                                                 | MODEL                                                      | 1552                       | DET         | ISTS YES X NO SHT 3 OF 4 |

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

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|                        |  |                                 |  |                                                                                      |                      |                                                                                                                   |                      |                                                      |      |
|------------------------|--|---------------------------------|--|--------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------|------|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | REV                                                                                  | ECO                  | ISSUE DATE AND DESCRIPTION                                                                                        |                      | DRFT                                                 | CHKD |
| NAME<br>CODES          |  | DIVISION CODE<br>EMSD           |  | DPK<br>CASTIGLIONE                                                                   | DATE<br>JAN 21, 2015 | MFG<br>JAN 21, 2015                                                                                               | DATE<br>JAN 21, 2015 |                                                      |      |
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| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 2009 |  | MAX SURFACE ROUGHNESS<br>SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY |                      | TITLE<br>LATCH/EJECT HEADER,<br>2MM, STRAIGHT, RIGHT<br>ANGLE & SMT                                               |                      | CAGE NUMBER<br>D 78-5100-2199-7                      |      |
|                        |  |                                 |  | MODEL<br>1552                                                                        |                      | DET.<br>LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                 |                      | SHT 4 OF 4                                           |      |
|                        |  |                                 |  | REV<br>ECO                                                                           |                      | DATE<br>DESCRIPTION                                                                                               |                      | DRFT<br>CHKD                                         |      |
|                        |  |                                 |  | L 58601                                                                              |                      | AUG 11, 2016<br>8-11-16 ADD SHT 4<br>REVISE TRADEMAKE NOTE<br>JUN 01, 2016<br>PRODUCTION RELEASE,<br>APR 29, 2016 |                      | JNC<br>RS                                            |      |

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 DRAWING NUMBER  
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