

**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.

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                                  |      |          |
| DO NOT SCALE DRAWING   | SCALE 4/1                       | TOLERANCES EXCEPT AS NOTED |              | INCHES<br>.00 ± .01<br>.000 ± .008<br>.0000 ± |      |          |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS                |              | 0<br>.0 ± .3<br>.00 ± .20<br>.000 ±           |      |          |
| 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   | 1    | OF 4     |

L 58601 AUG 11, 2016  
 8-11-16 ADD SHT 4  
 REVISE TRADEMAKE NOTE  
 JUN 01, 2016  
 PRODUCTION RELEASE,  
 APR 29, 2016

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TITLE  
**LATCH/EJECT HEADER,  
 2MM, STRAIGHT, RIGHT  
 ANGLE & SMT**

78-5100-2199-7  
 1552  
 L  
 1

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

STRAIGHT VERSION



ORDERING INFORMATION  
1552XX-6X0X-XX

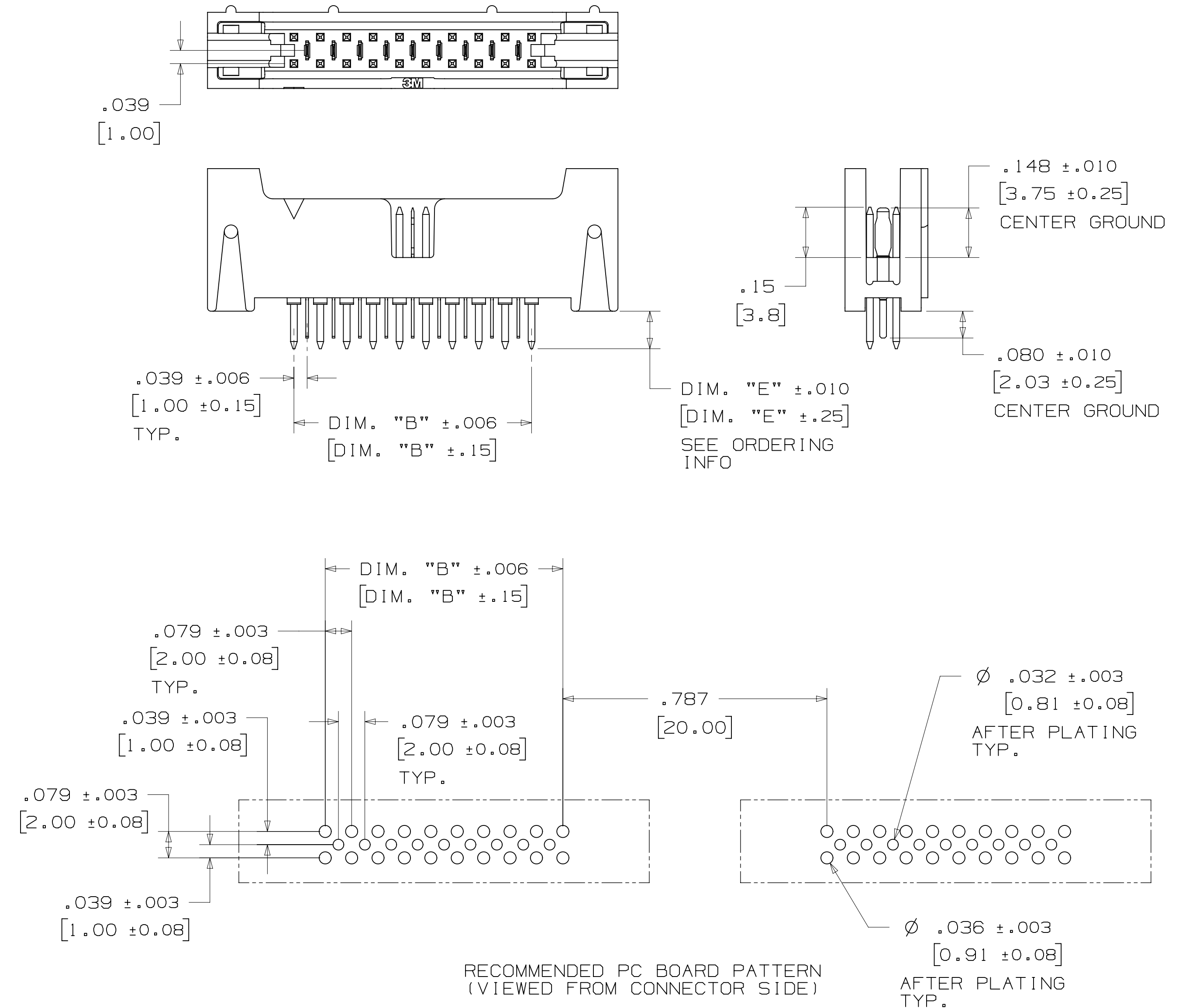
CONTACT QUANTITY:  2  3  4

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]

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]

| 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                   |   |      |                            |      |  |
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| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | TITLE<br>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 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 4 |

78-5100-2199-7  
DRAWING NUMBER  
REV. 1  
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  | DATE                            | APPV   | DATE  |                            |      |      |
|   |                                 | R. SCHERER   | 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>DET. [ ] YES [X] NO SHT 3 OF 4 |                            |      |      |
| TITLE<br>LATCH/EJECT HEADER,<br>2MM, STRAIGHT, RIGHT<br>ANGLE & SMT |                                 | © 3M COPYRIGHT 2017<br>St. Paul, MN 55144  |   |                            |      |      |

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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|                        |                                 |   |  |                            |                |   |
|------------------------|---------------------------------|---|--|----------------------------|----------------|---|
| DESIGN REFERENCE       | NEXT ASSEMBLY                   | REV   | ECO  | ISSUE DATE AND DESCRIPTION | DRFT           | CHKD  |
|                        |                                 |   |  | AUG 11, 2016               | JNC            | RS  |
|                        |                                 |   |  | 8-11-16 ADD SHT 4          |                |   |
|                        |                                 |   |  | REVISE TRADEMAKE NOTE      |                |   |
|                        |                                 |   |  | JUN 01, 2016               |                |   |
|                        |                                 |   |  | PRODUCTION RELEASE,        |                |   |
|                        |                                 |   |  | APR 29, 2016               |                |   |
| NAME                   | DATE                            | DATE  | DATE   | DATE                       | DATE           | DATE  |
| CASTIGLIONE            | JAN 21, 2015                    | MFG   |  |                            |                |   |
| CHKD                   | DATE                            | APPRV   | DATE   | DATE                       | DATE           | DATE  |
|                        |                                 | R. SCHERER  | 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 SURFACES                 | MARKED ONLY   | CAGE NUMBER                                  | SIZE                       | DRAWING NO.    | REV.  |
|                        |                                 |   | D  | 1552                       | 78-5100-2199-7 | L   |
|                        |                                 |   | MODEL  | 1552                       | DET            | IS1s <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 4 OF 4 |

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

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- Поставка электронных компонентов под контролем ВП;
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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