

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

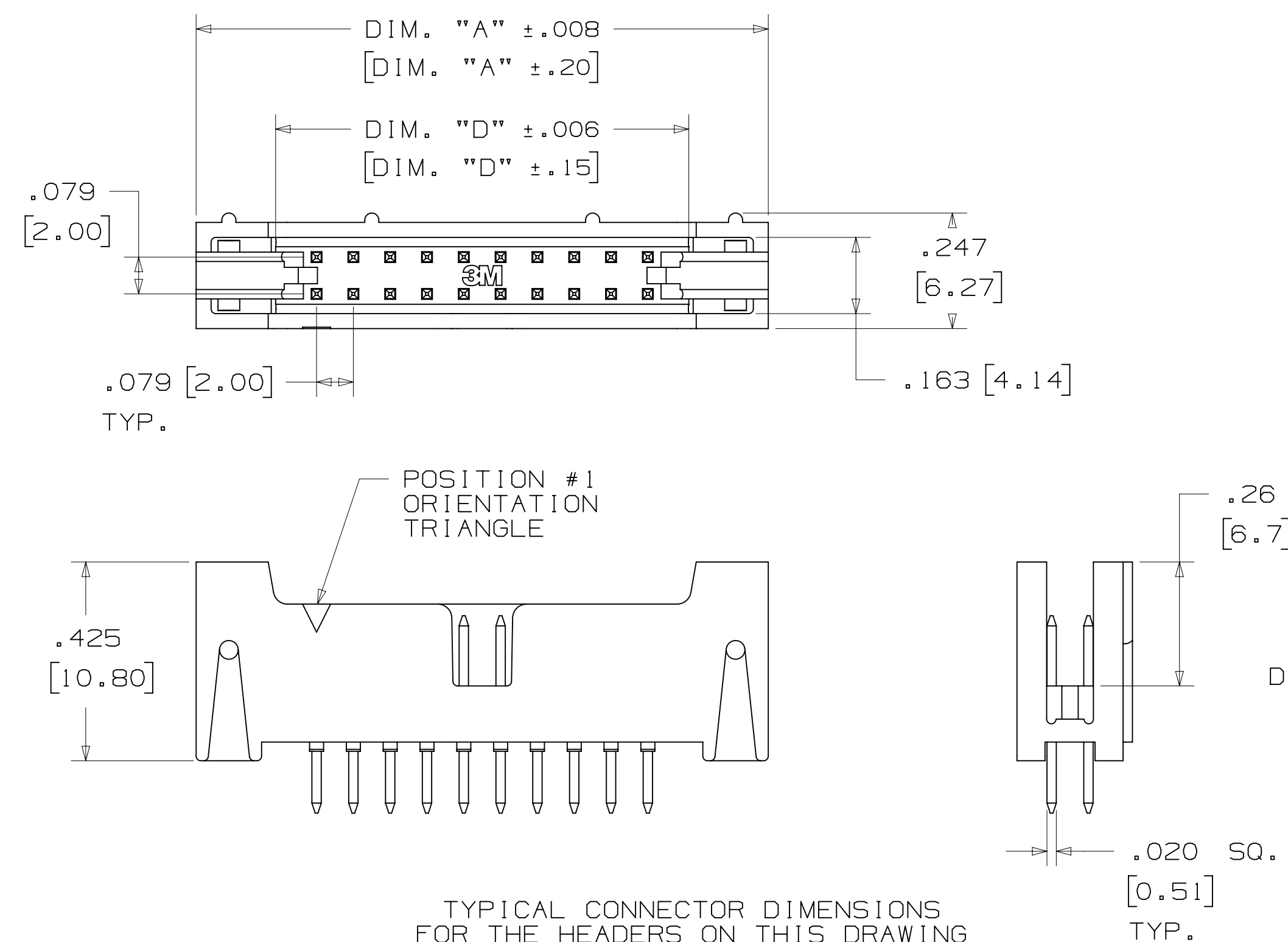
3 ENVIRONMENTAL:

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.

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)

- 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.

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

|                      |               |                            |              |                            |              |              |
|----------------------|---------------|----------------------------|--------------|----------------------------|--------------|--------------|
| 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                     |              |              |
|                      |               |                            |              | MARKED ONLY                |              |              |

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

3M Center St. Paul, MN 55144  
© 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: D78-5100-2199-7  
DRAWING NO.: 78-5100-2199-7  
REV. L

MODEL: 1552  
SHEET: 1 OF 4

78-5100-2199-7  
DRAWING NUMBER  
Imaged: L.6 Central Time 5/17/2017 UTC 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

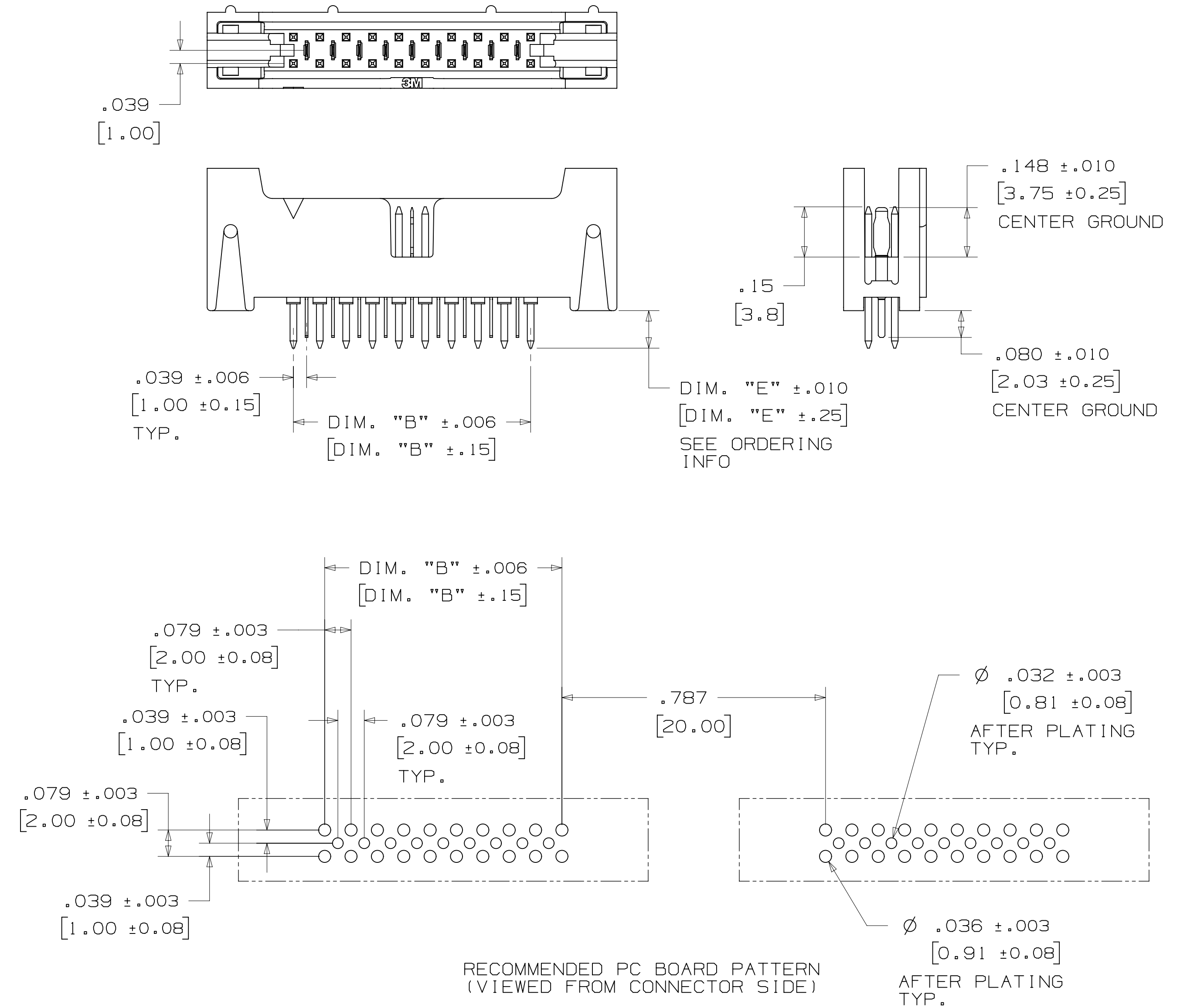
CONTACT QUANTITY:  2  3  4

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]

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 |                            |      |   |
|   |                                 |  |      |                            |      |   |
| DIVISION  | DIVISION CODE                   |  |      |                            |      |   |
| DO NOT SCALE DRAWING                            | SCALE 4/1                       | TOLERANCES EXCEPT AS NOTED<br>INCHES<br>.0 ±.01<br>.000 ±.008<br>.0000 ±<br>MILLIMETERS<br>0 ±<br>.0 ±.3<br>.00 ±.20<br>.000 ± |      |                            |      |   |
| 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. |   |
| <input checked="" type="checkbox"/> MARKED ONLY | ANGLS                           | D  |      | 78-5100-2199-7             | L    |   |
|   |                                 | MODEL  |      | 1552                       | DET  | ISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 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

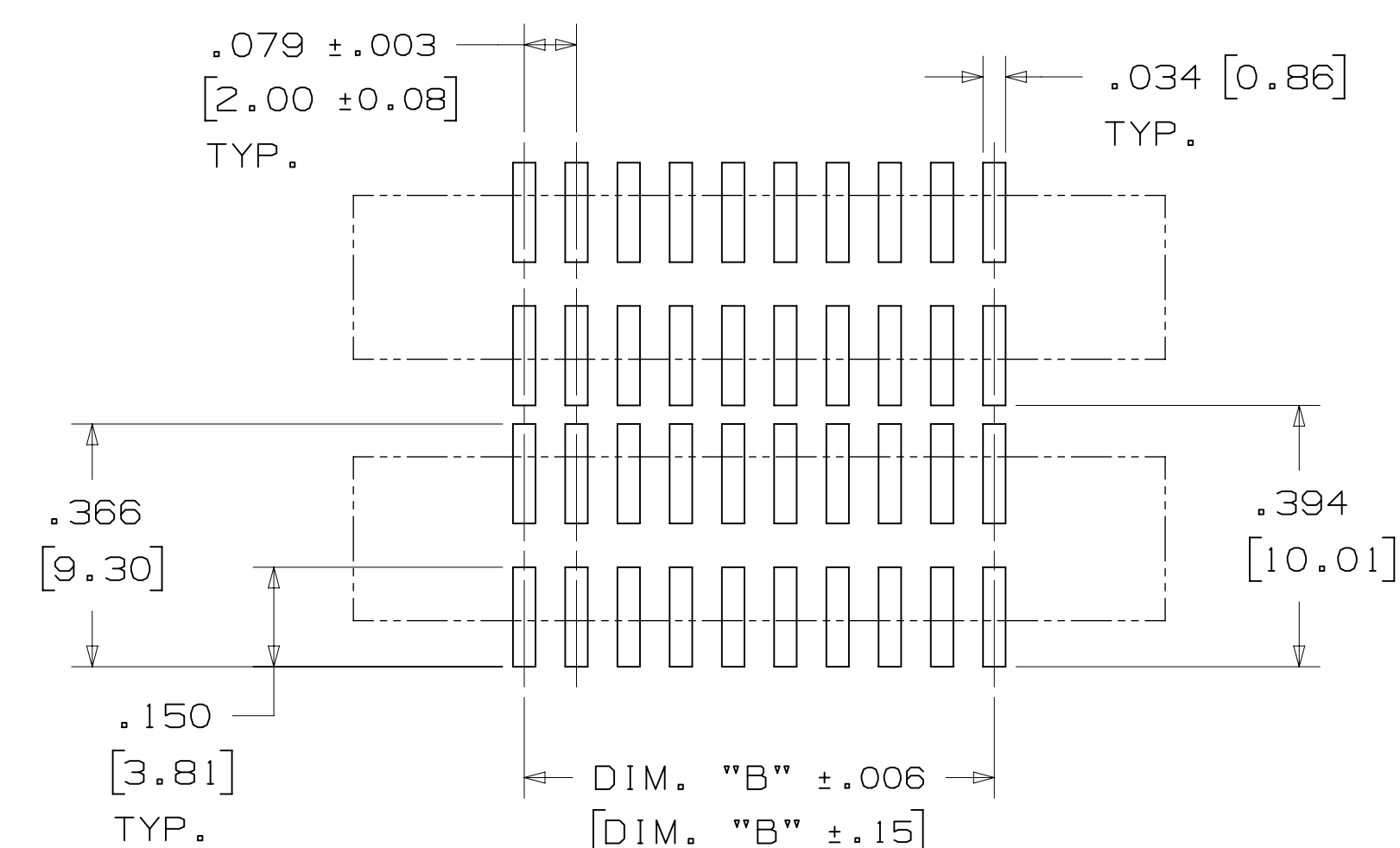
- PLATING OPTIONS:
- RB = 30µIN [.76µm] GOLD
  - RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

- 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                            | APPV                               | DATE  | DATE  | DATE                       | DATE        | DATE                     |
|                                 |                                    |   |   |                            |             |                          |
| DIVISION                        | DIVISION CODE                      | © 3M COPYR[IGHT] 2017<br>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. |   |                            |             |                          |
| DO NOT SCALE DRAWING            | SCALE 4/1                          | TOLERANCES EXCEPT AS NOTED  | <b>3M</b> Center St. Paul, MN 55144                           |                            |             |                          |
| THIRD ANGLE PROJECTION          | INCHES .00 ±.01 .000 ±.008 .0000 ± | MILLIMETERS 0 ± .3 .00 ±.20 .000 ±  | TITLE<br>LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT |                            |             |                          |
| 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 |

78-5100-2199-7  
 DRAWING NUMBER  
 17/2017UTC Offset  
 Standard Time

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

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Unless otherwise noted, references to industry specifications are intended to indicate substantial compliance to the material elements of the specification. Such references should not be construed as a guarantee of compliance to all requirements in a given specification.

|                        |                                 |   |  |                            |             |  |
|------------------------|---------------------------------|---|--|----------------------------|-------------|--|
| 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                                 |                            |             |  |
| DIVISION               | DIVISION CODE                   |  3M Center<br>St. Paul,<br>MN 55144<br>© 3M COPYRIGHT 2017<br>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. |  |                            |             |  |
| DO NOT SCALE DRAWING   | SCALE 1/1                       | TOLERANCES EXCEPT AS NOTED  | INCHES<br>.0 ± .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                     | ANGLES  | CAGE NUMBER                                  | SIZE                       | DRAWING NO. | REV.   |
|                        |                                 |   | D  | 78-5100-2199-7             | L           |  |
|                        |                                 |   | MODEL  | 1552                       | DET         | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> SHT 4 OF 4 |

78-5100-2199-7  
 DRAWING NUMBER  
 1552  
 Standard Time 5/17/2017 UTC OffSet

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9