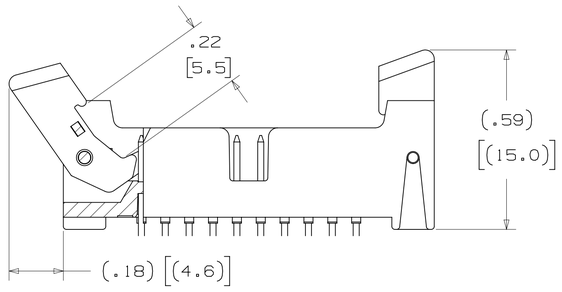
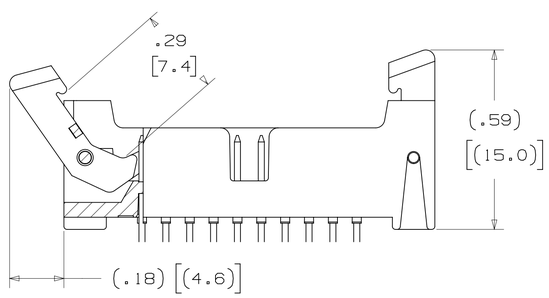
3M™ LATCH/EJECT HEADER, 1552 SERIES

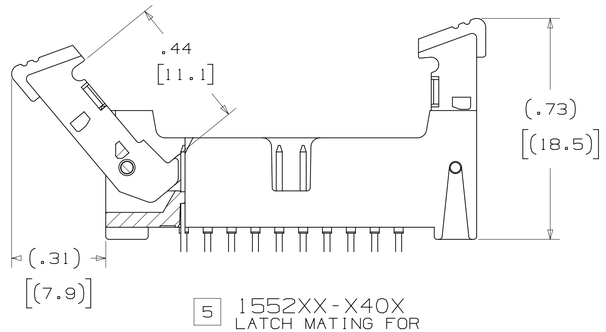
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



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: > $1X10^9$ 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)

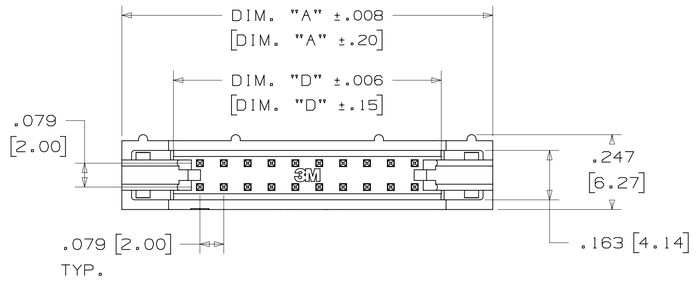
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020)

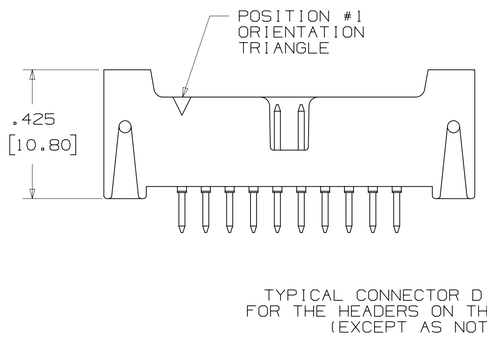
7

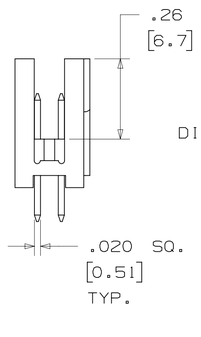
TABLE 1

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

* 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.







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

DIMENSIONS: MM [INCHES]

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.

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	58601	AUG 11,2016 8-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01,2016 PRODUCTION RELEASE, APR 29,2016	JNC	RS

DRFT CASTIGLIONE — DATE JAN 21,2015 — MFG — DATE
CHKD — DATE — APPVL R. SCHERER — DATE JAN 21,2015

DESIGN REFERENCE — NEXT ASSEMBLY — ACCESS CODES — DIVISION — DIVISION CODE EMSD

DO NOT SCALE DRAWING — SCALE 4/1

THIRD ANGLE PROJECTION

TOLERANCES EXCEPT AS NOTED
INCHES: .0 ±, .00 ±.01, .000 ±.008, .0000 ±
MILLIMETERS: 0 ±, .0 ±.3, .00 ±.20, .000 ±
ANGLES ±

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY

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 — SIZE D — DRAWING NO. 78-5100-2199-7 — REV. L

MODEL 1552 — DET LISTS ☐ YES ☒ NO — SHT 1 OF 4

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

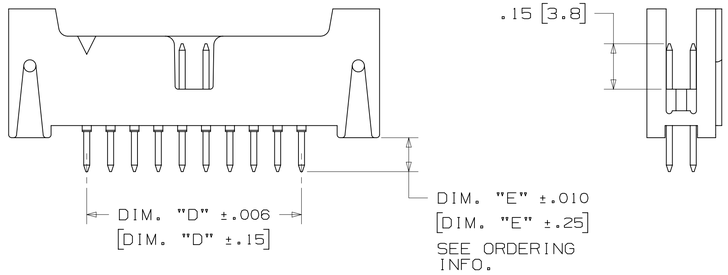
78-5100-2199-7 (DATA NO.) L (REVISION)

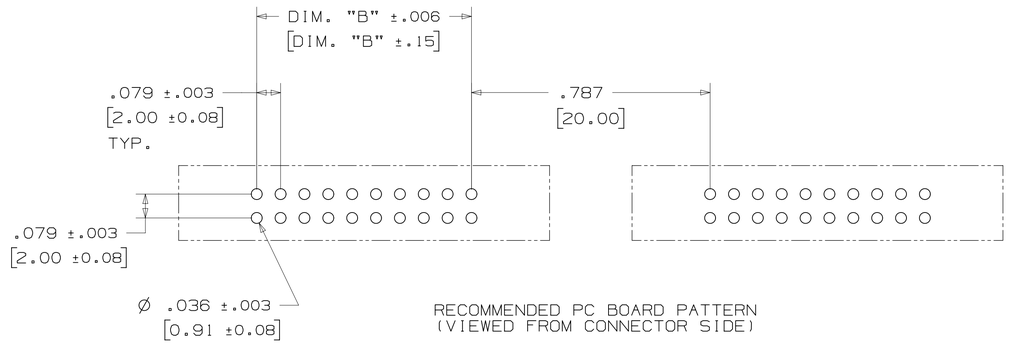
Image: L:6 Central Standard Time 5/17/2017 UTC offset

3M™ LATCH/EJECT HEADER, 1552 SERIES

2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

STRAIGHT VERSION





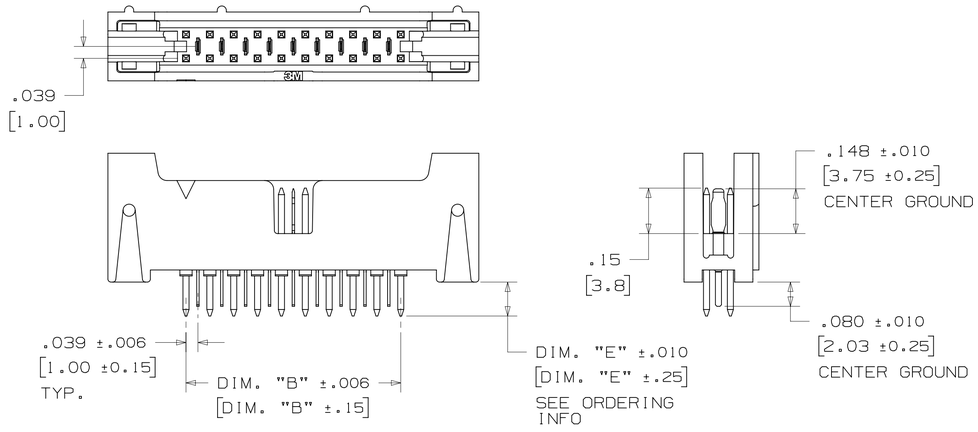
RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

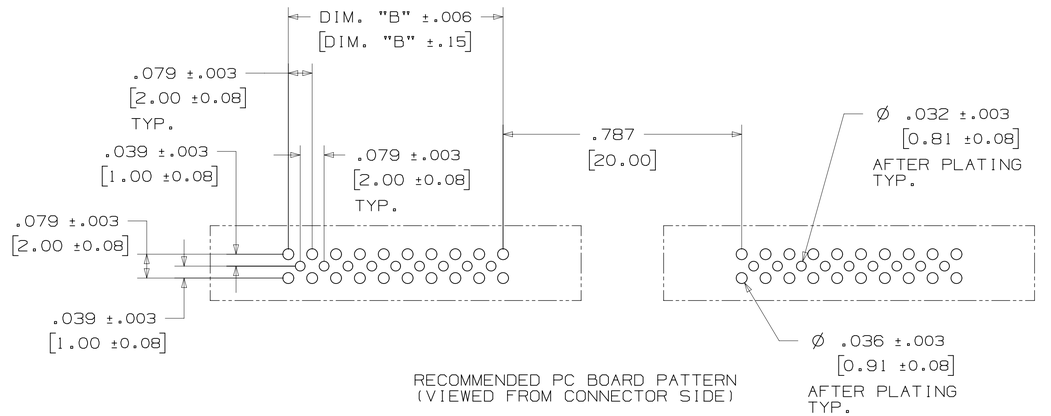
ORDERING INFORMATION

1552XX-6X0X-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
- SOLDER TAIL LENGTH: DIMENSION "E"
  - 2 = .112 [2.84]
  - 3 = .155 [3.94]
- PLATING OPTIONS:
  - RB = 30μIN [.76μm] GOLD
  - RA = 10μIN [.25μm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

STRAIGHT VERSION WITH INTERSTITIAL GROUNDS





RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

G1552XX-6X0X-XX

- CONTACT QUANTITY:
- LATCHING OPTIONS:
  - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX
- SOLDER TAIL LENGTH: DIMENSION "E"
  - 2 = .112 [2.84]
- PLATING OPTIONS:
  - RB = 30μIN [.76μm] GOLD
  - RA = 10μIN [.25μm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	58601	AUG 11,2016 8-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01,2016 PRODUCTION RELEASE, APR 29,2016	JNC	RS

DESIGN REFERENCE / NEXT ASSEMBLY / ACCESS CODES

DRFT: CASTIGLIONE — DATE: JAN 21,2015 — MFG — DATE

CHKD — DATE — APPVL: R. SCHERER — DATE: JAN 21,2015

DIVISION: EMSD

DIVISION CODE

DO NOT SCALE DRAWING — SCALE 4/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS: ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES: .0 ± / .00 ± .01 / .000 ± .008 / .0000 ±

MILLIMETERS: 0 ± / .0 ± .3 / .00 ± .20 / .000 ±

ANGLES ±

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 — SIZE: D — DRAWING NO.: 78-5100-2199-7 — REV.: L

MODEL: 1552 — DET. LISTS ☐ YES ☒ NO — SHT 2 OF 4

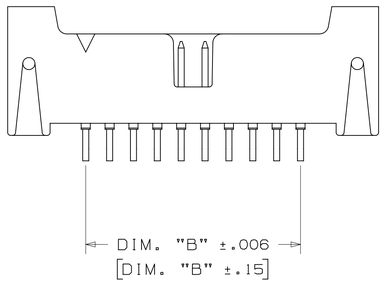
78-5100-2199-7 (DRAWING NUMBER) L (REVISION)

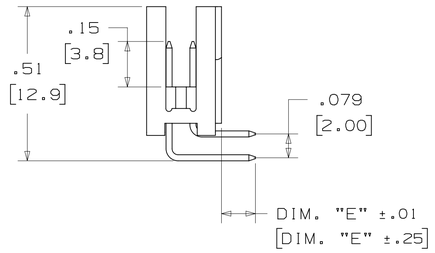
Image: L:6 Central Standard Time 5/17/2017 UTC offset

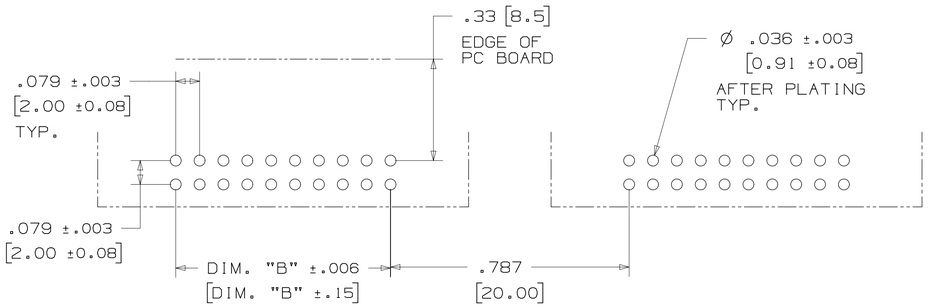
3M™ LATCH/EJECT HEADER, 1552 SERIES

2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

RIGHT ANGLE VERSION







RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

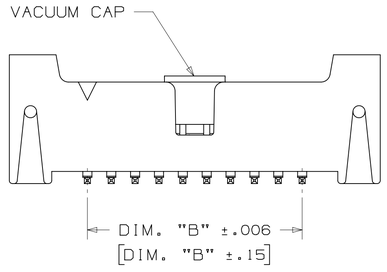
ORDERING INFORMATION

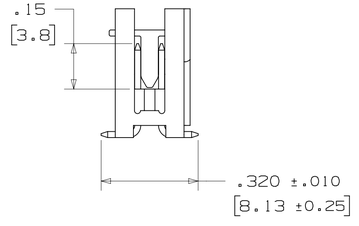
1552XX-5X0X-XX

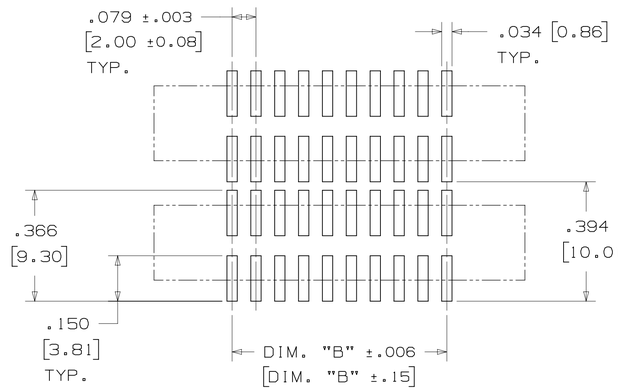
- CONTACT QUANTITY:
- LATCHING OPTIONS:
  - 2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
  - 3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
  - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX
- SOLDER TAIL LENGTH: DIMENSION "E"
  - 2 = .112 [2.84]
  - 3 = .155 [3.94]
- PLATING OPTIONS:
  - RB = 30μIN [.76μm] GOLD
  - RA = 10μIN [.25μm] GOLD
  - (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

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
- PLATING OPTIONS:
  - RB = 30μIN [.76μm] GOLD
  - RA = 10μIN [.25μm] GOLD
  - (RIA E1 & C1 APPLY) FOR BOTH PLATINGS
- PACKAGING:
  - BLANK = TRAYS
  - WX = TAPE & REEL (SEE TABLE 1 ORDER CODE)

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	58601	AUG 11,2016 8-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01,2016 PRODUCTION RELEASE, APR 29,2016	JNC	RS

DESIGN REFERENCE	NEXT ASSEMBLY	DRFT CASTIGLIONE	DATE JAN 21,2015
ACCESS CODES		MFG	DATE
DIVISION	DIVISION CODE EMSD	CHKD	DATE
DO NOT SCALE DRAWING	SCALE 4/1	APPVL R. SCHERER	DATE JAN 21,2015
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED: INCHES .0 ± / .00 ± .01 / .000 ± .008 / .0000 ±	3M Center St. Paul, MN 55144	
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± / .0 ± .3 / .00 ± .20 / .000 ±		
MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY	ANGLES ±		

© 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. LISTS ☐ YES ☒ NO | SHT 3 OF 4

78-5100-2199-7 REVISION L

Imaged: L.6 Central Standard Time5/17/2017UTC offset

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 indrustry 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.

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
L	58601	AUG 11,2016 8-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01,2016 PRODUCTION RELEASE, APR 29,2016	JNC	RS

DESIGN REFERENCE — NEXT ASSEMBLY

ACCESS CODES

DRFT: CASTIGLIONE — DATE: JAN 21,2015 — MFG — DATE

CHKD — DATE — APPVL: R. SCHERER — DATE: JAN 21,2015

DIVISION — DIVISION CODE: EMSD

DO NOT SCALE DRAWING — SCALE 1/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±
.00 ±.01
.000 ±.008
.0000 ±

MILLIMETERS
0 ±
.0 ±.3
.00 ±.20
.000 ±

ANGLES ±

© 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.

3M Center, St. Paul, MN 55144

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

CAGE NUMBER — SIZE: D — DRAWING NO.: 78-5100-2199-7 — REV.: L

MODEL: 1552 — DET. LISTS ☐ YES ☒ NO — SHT 4 OF 4

78-5100-2199-7 (DRAWING NUMBER) L (REVISION)

Image: L:\6 Central Standard Time\5/17/2017UTC offset

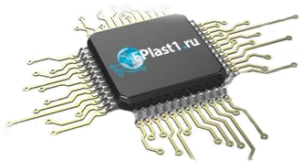
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.