

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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 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 ± .0000 MILLIMETERS 0 ± .3 .00 ± .20 .000 ± .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		CAGE NUMBER		DRAWING NO.		REV.
LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT		D 78-5100-2199-7		L		L
MODEL		1552		SHT 1 OF 4		

78-5100-2199-7
 DRAWING NUMBER
 1552
 SHT 1 OF 4

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

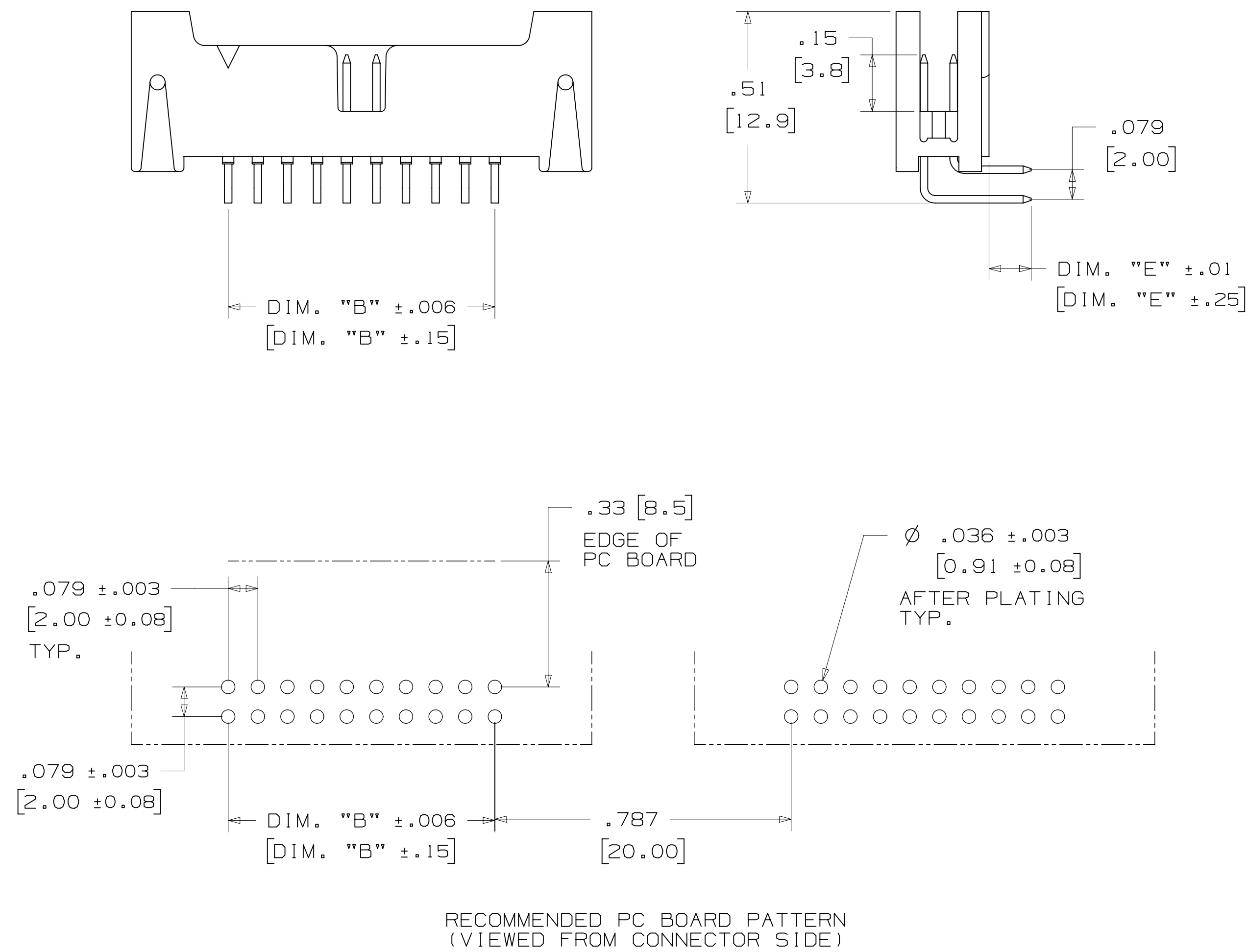
SOLDER TAIL LENGTH: DIMENSION "E"
2 = .112 [2.84]

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					
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.	
<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



ORDERING INFORMATION
 1552XX-5X0X-XX

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

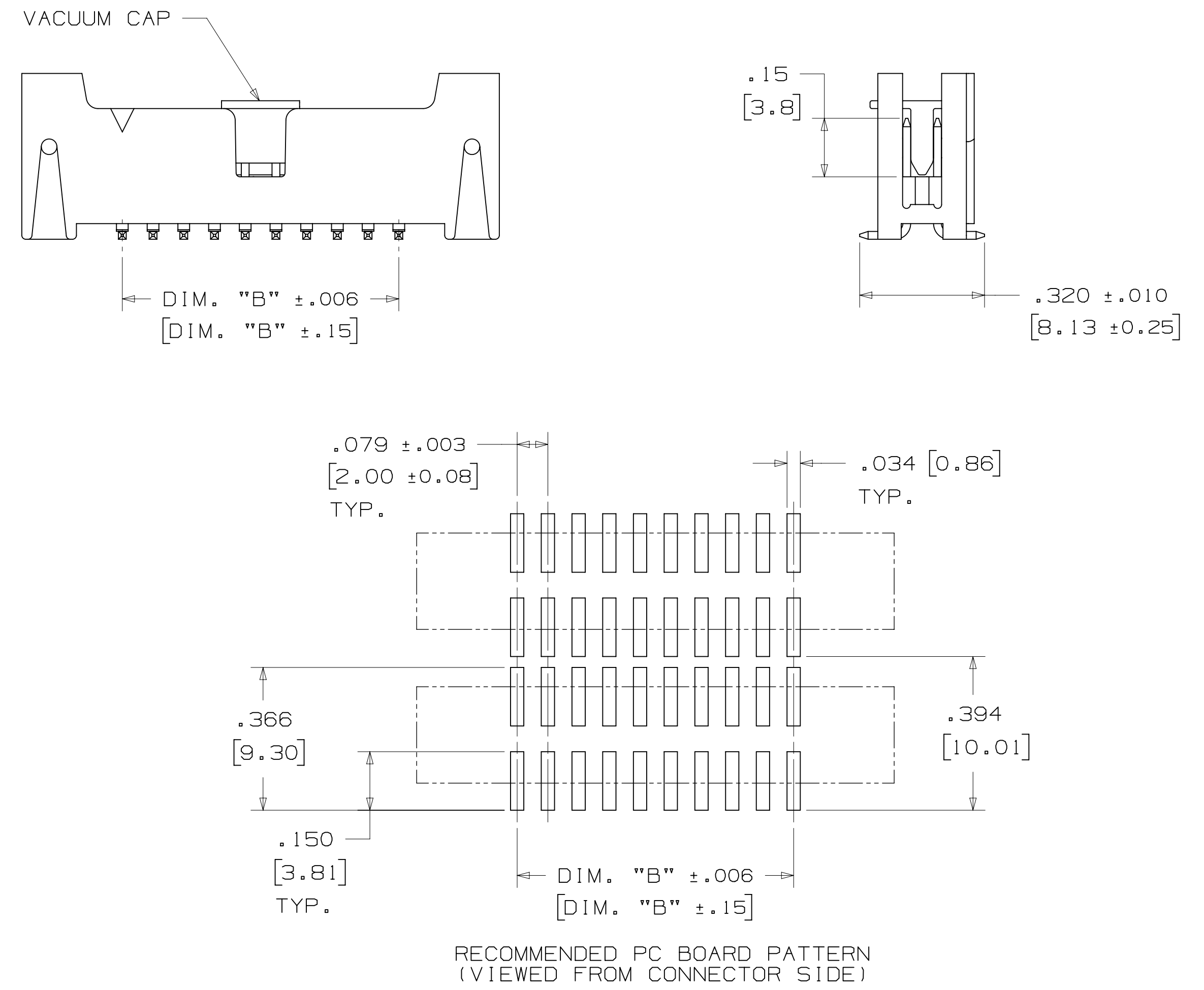
CONTACT QUANTITY: _____

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.



ORDERING INFORMATION

1552XX-2X00-XX-XX
 CONTACT QUANTITY: _____

LATCHING OPTIONS: _____

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
		L	58601	AUG 11, 2016	JNC	RS
				8-11-16 ADD SHT 4		
				REVISE TRADEMAKE NOTE		
				JUN 01, 2016		
				PRODUCTION RELEASE,		
				APR 29, 2016		
DRW CODES	DATE	MFG	DATE			
	JAN 21, 2015					
DIVISION	DIVISION CODE	CHKD	DATE	APPV	DATE	
	EMSD			R. SCHERER	JAN 21, 2015	
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		INCHES		MILLIMETERS		
		.00 ± .01 .000 ± .008 .0000 ±		0 ± .00 ± .20 .000 ±		
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		CAGE NUMBER		
		✓ MARKED ONLY		D 78-5100-2199-7		
				DRAWING NO. 78-5100-2199-7		REV. L
				MODEL 1552		

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				AUG 11, 2016	JNC	RS
				8-11-16 ADD SHT 4		
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				PRODUCTION RELEASE,		
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APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
CASTIGLIONE	JAN 21, 2015	MFG				
CHKD	DATE	DATE	DATE	DATE	DATE	DATE
				R. SCHERER		JAN 21, 2015
DIVISION	DIVISION CODE	 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.				
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED INCHES .0 ± .01 .000 ± .008 .0000 ±		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± .0 ± .3 .00 ± .20 .000 ±		CAGE NUMBER	SIZE	DRAWING NO.
MAX SURFACE ROUGHNESS	MARKED SURFACES	<input checked="" type="checkbox"/> MARKED ONLY		D		78-5100-2199-7
				MODEL	1552	REV. L
				DET	IS1s	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 4 OF 4

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

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JONHON

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