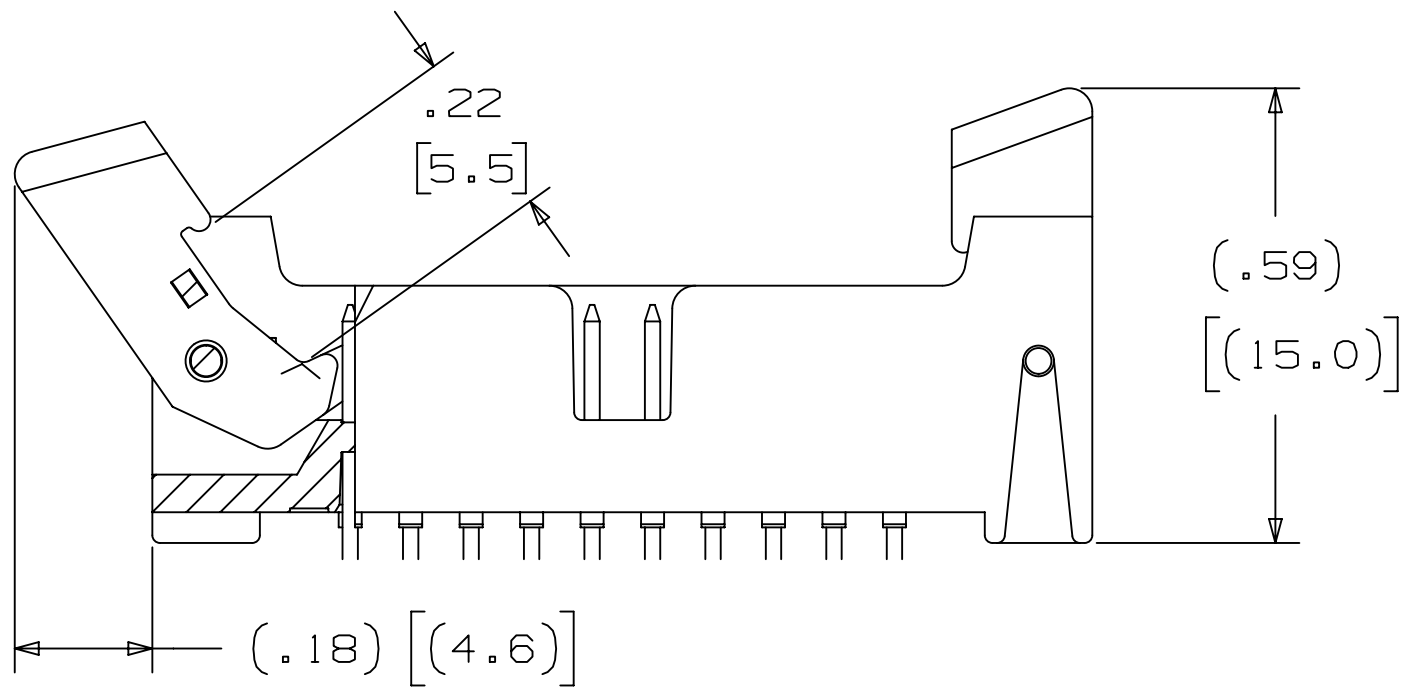
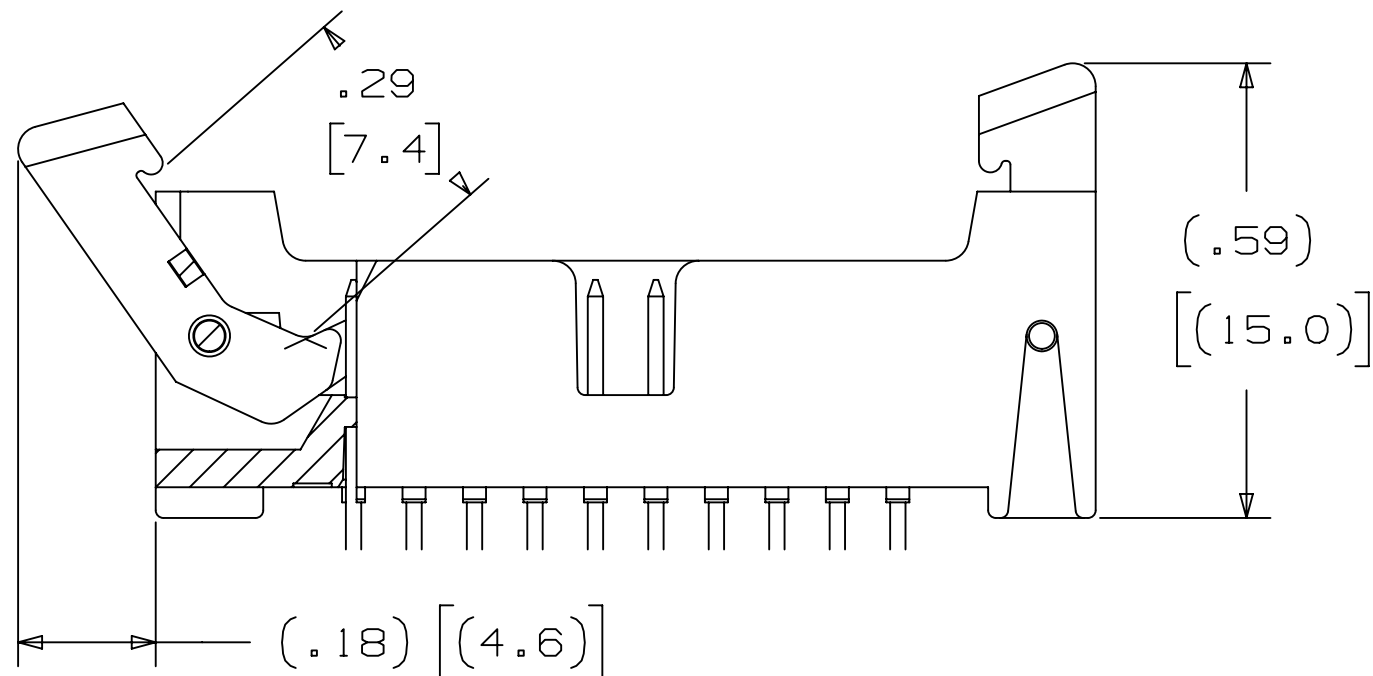


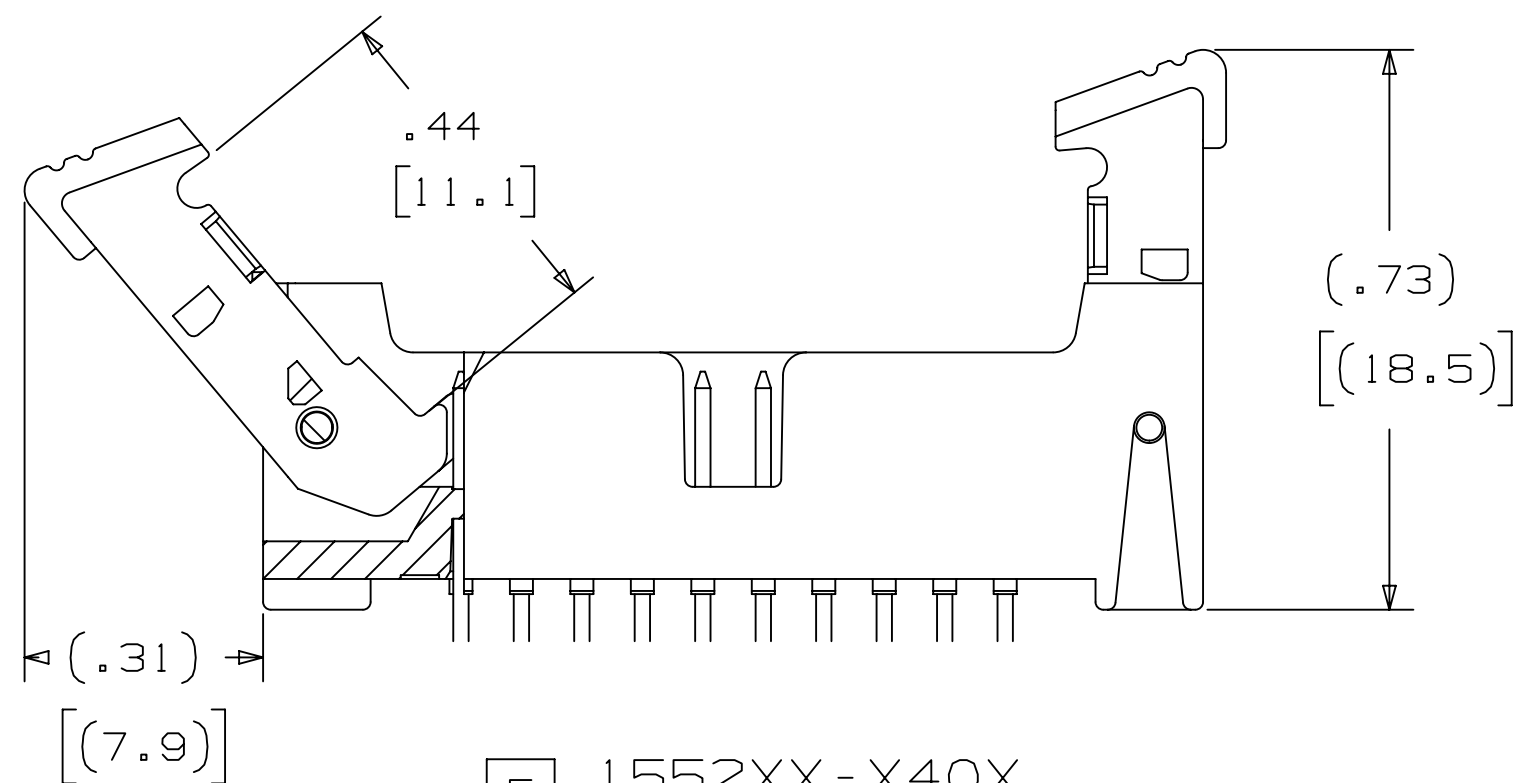
3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



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
2.75A, 6 ADJACENT LINES POWERED
1.25A, ALL LINES POWERED

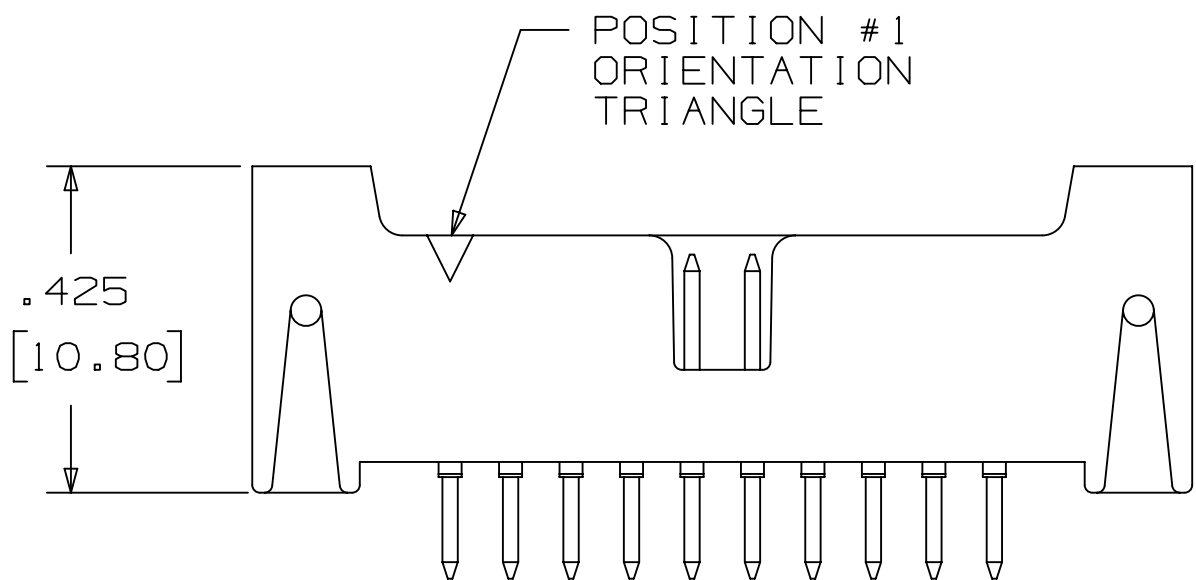
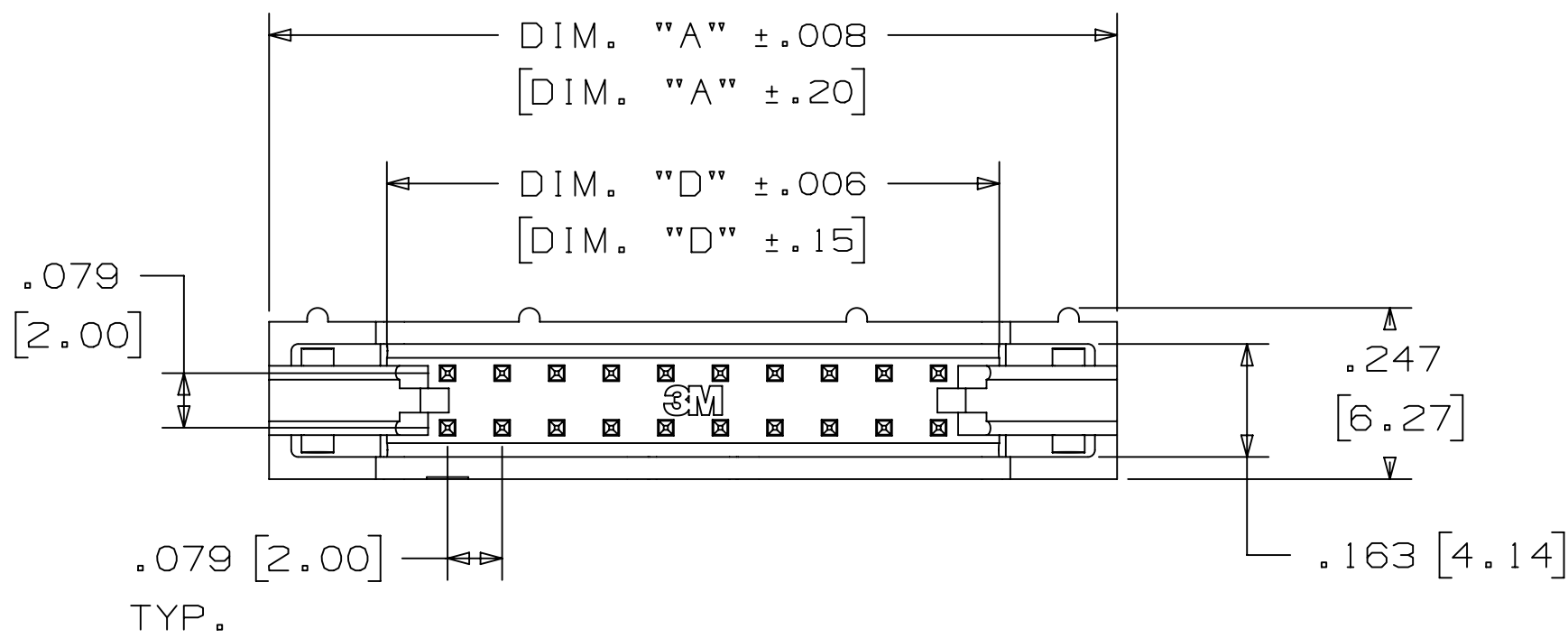
RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM TEMPERATURE
RISE, 20% DERATED. REFERENCE APPROPRIATE 3M PRODUCT
SPECIFICATION FOR DETAILED CURRENT DERATING CURVES.

INSULATION RESISTANCE: > 1X10⁹ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE: 500 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.



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

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

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373



UL FILE NO: E68080,
VOLUME 2, SECTION 4

- NOTES
1. MATERIAL: PLASTIC: GLASS FILLED POLYESTER (LCP) UL94V-0, BLACK CONTACT: COPPER ALLOY.
 2. PLATING: 50-150μ" NICKEL UNDERPLATING WIPE AREA: SEE ORDERING INFO. SOLDER TAIL: 200μ" MIN. 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](http://3m.com/regs)
 5. SEE TABLE 1 FOR LATCH AVAILABILITY.
 6. MATING COMPATIBILITY SERIES: 1522, 870, 2M AND 2MM SCI CARRIER (93XX).

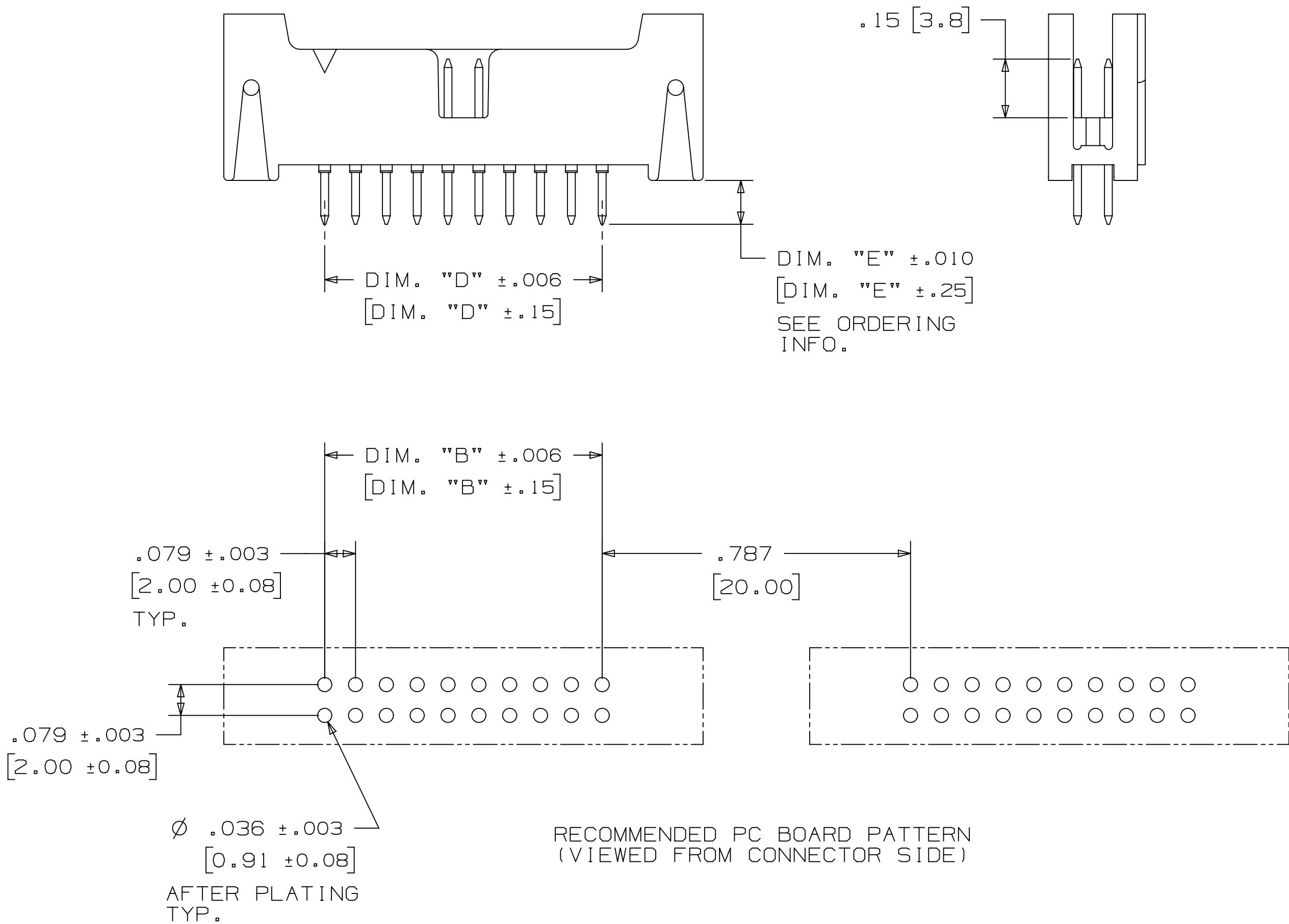
P	103741	MAR 29,2022	JNC	SAN
N	99400	REVISE 24P IN TABLE 1 SEP 20,2021	JNC	FJR
M	97385	REVISE ELECTRICAL PERFORMANCE JUN 02,2021	JNC	FJR
L	58601	REMOVED G1552XX, REVISED NOTES AUG 11,2016 8-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01,2016 PRODUCTION RELEASE, APR 29,2016	JNC	RS

DIMENSIONS: INCHES [MM]
[MM] IS REF. ONLY

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXXX	XXXXXX	DRFT	CASTIGLIONE	DATE JAN 21,2015	MFR	DATE
XXXXXX	XXXXXX	CHKD	XXXXXX	DATE	APPR	DATE JAN 21,2015
DIVISION	DIVISION CODE					
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES .00 ±.01 .000 ±.0008 .0000 ±.0002				
MAX SURFACE ROUGHNESS	ALL SURFACES	MILLIMETERS 0 ±.00 ±.000				
MARKED ONLY	ANGLES					
		3M		© 3M COPYRIGHT 2022 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	P	
		MODEL	1552	DET	LISTS	YES NO SHT 1 OF 4

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

STRAIGHT VERSION



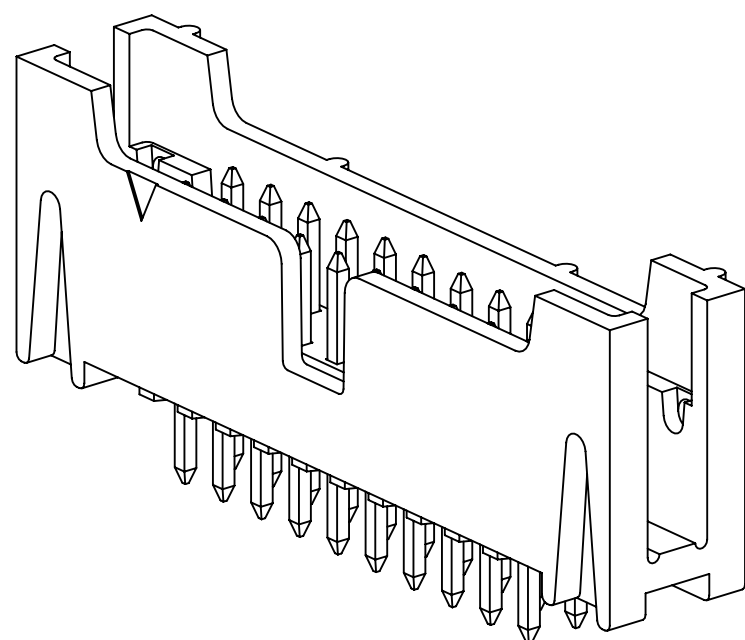
ORDERING INFORMATION
1552XX-6X0X-XX

CONTACT QUANTITY: 6

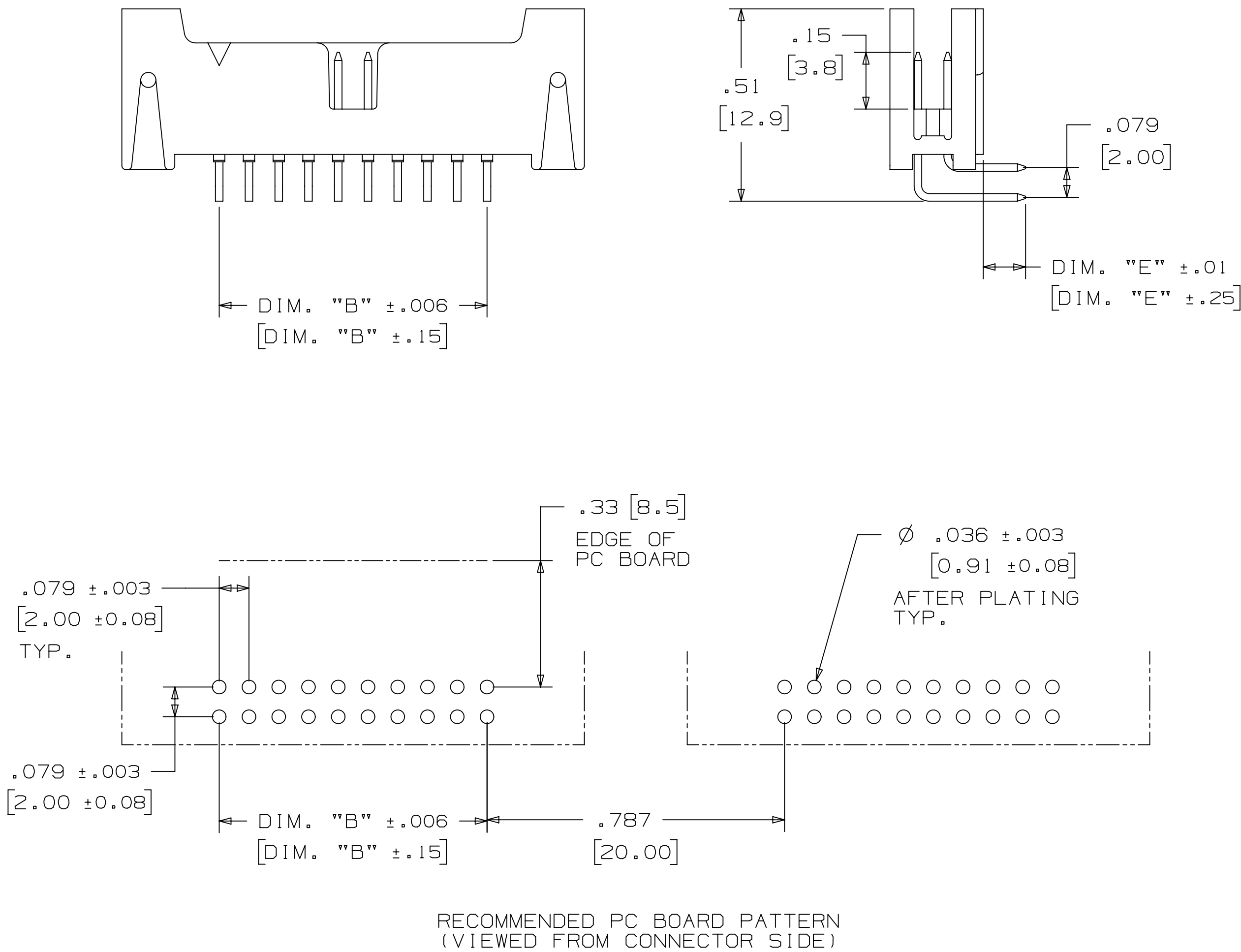
LATCHING OPTIONS:
2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES: 93XX

PLATING OPTIONS:
RB = 30μ" AVG. [.76μm] GOLD
RA = 10μ" AVG. [.25μm] GOLD

SOLDER TAIL LENGTH: DIMENSION "E"
2 = .112 [2.84]
3 = .155 [3.94]



RIGHT ANGLE VERSION



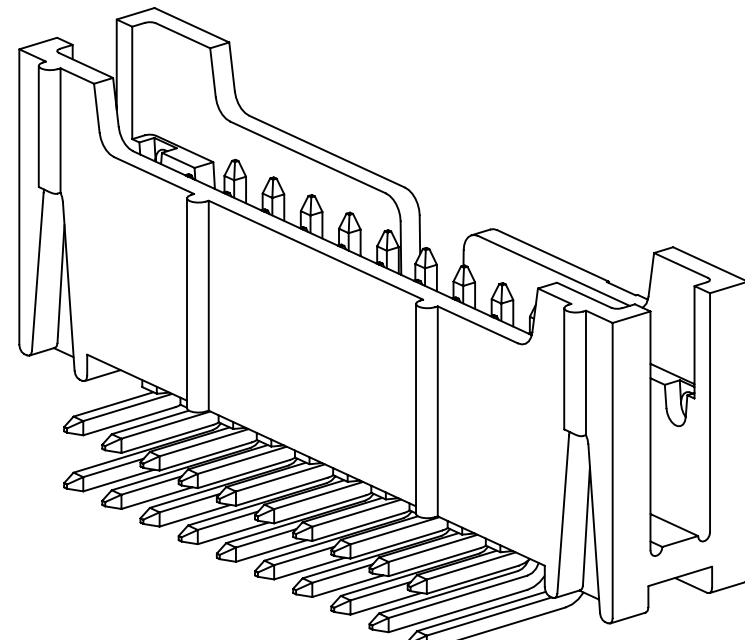
ORDERING INFORMATION
1552XX-5X0X-XX

CONTACT QUANTITY: 5

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 = 30μ" AVG. [.76μm] GOLD
RA = 10μ" AVG. [.25μm] GOLD

SOLDER TAIL LENGTH: DIMENSION "E"
2 = .112 [2.84]
3 = .155 [3.94]

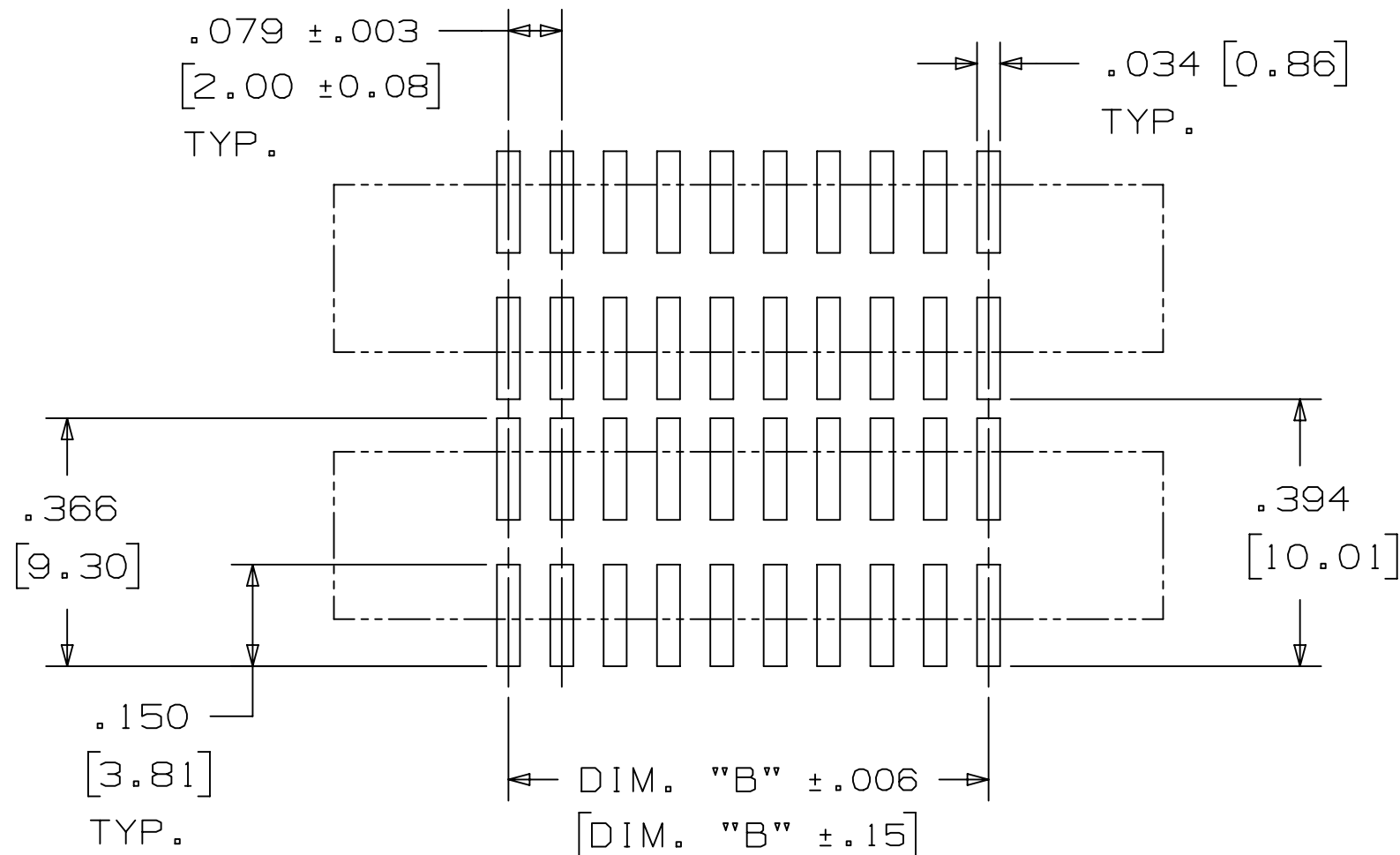
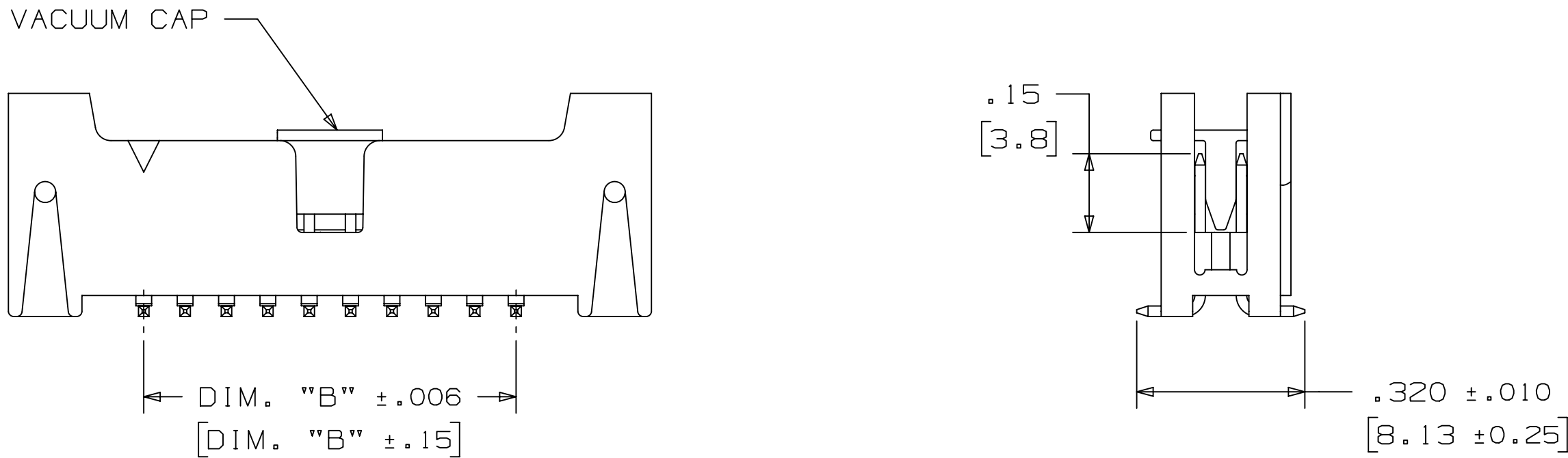


DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES				DRFT	CATTIGLIONE	DATE	JAN 21, 2015	MFG	DATE
				CHKD		DATE		APPR	DATE
								R. SCHERER	JAN 21, 2015
DIVISION		DIVISION CODE							
		EMSD							
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED					
				INCHES .00 ±.1 .00 ±.01 .000 ±.008 .0000 ±.0002					
THIRD ANGLE PROJECTION				MILLIMETERS 0 ±.1 .00 ±.01 .000 ±.008 .0000 ±.0002					
INTERPRET PER ASME Y14.5 - 2018									
MAX. SURFACE ROUGHNESS									
☒ ALL SURFACES									
☐ MARKED ONLY									
				ANGLES ±					

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

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.
4) SURFACE MOUNT VERSION: ORDER CODE APPLIES TO THE TAPE AND REEL WIDTH.



RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

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	WF	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

ORDERING INFORMATION

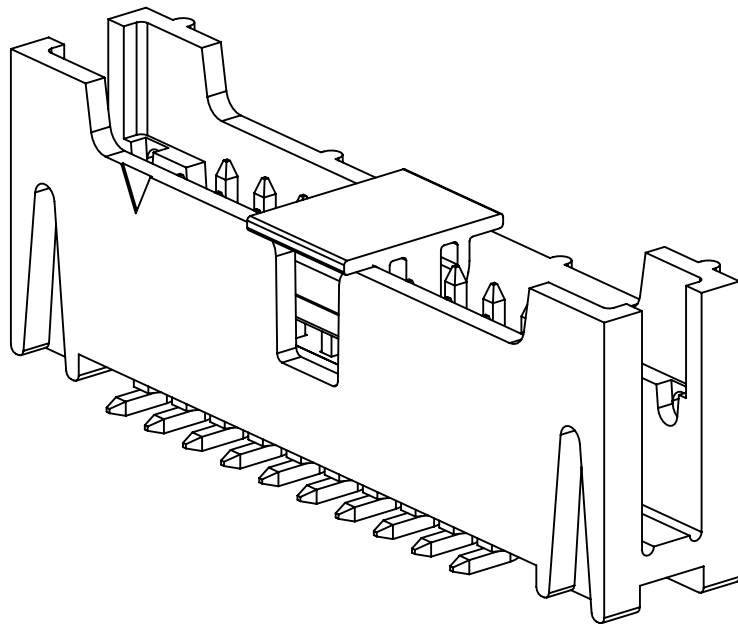
1552XX-2X00-XX-XX

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 = 30μ" AVG. [.76μm] GOLD
RA = 10μ" AVG. [.25μm] GOLD



DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXXX	XXXXXX	DRFT	CASTIGLIONE	DATE JAN 21, 2015	WFS	DATE
DIVISION	DIVISION CODE EMSD	CHKD	DATE	APPR. R. SCHERER	DATE JAN 21, 2015	
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	INCHES ±.1 ±.01 ±.000 ±.0008 ±.0002			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ±.0 ±.00 ±.000	ANGLES ±			
MAX. SURFACE ROUGHNESS	ALL SURFACES	MARKED ONLY	CAGE NUMBER	SIZE	DRAWING NO.	REV.
			D78-5100-2199-7	1552	1552	P
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			© 3M COPYRIGHT 2022			
			3M Center St. Paul, MN 55144			
			LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT			
			SHT 3 OF 4			

3M™ LATCH/EJECT HEADER, 1552 SERIES

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Austin, TX 78753-5380
1-800-225-5373
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P	103741	MAR 29,2022 REVISE 24P IN TABLE I	JNC	SAN
N	99400	SEP 20,2021 REVISE ELECTRICAL PERFORMANCE	JNC	FJR
M	97385	JUN 02,2021 REMOVED G1552XX, REVISED NOTES	JNC	FJR
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		
ACROSS CODES		DRFT		CHKD
		DATE		DATE
		MFG		
DIVISION		APPR.		DATE
		R. SCHERER		JAN 21,2015
DIVISION CODE		EMSD		
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		
SCALE 1 1		INCHES		
THIRD ANGLE PROJECTION		MILLIMETERS		
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS		
MAX SURFACE ROUGHNESS		ALL SURFACES		
MARKED ONLY		ANGLES		
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TITLE		LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT		
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	5100-2199-7	P		
MODEL	1552	DET.	LISTS	OYES
		NO	SHT	4 OF