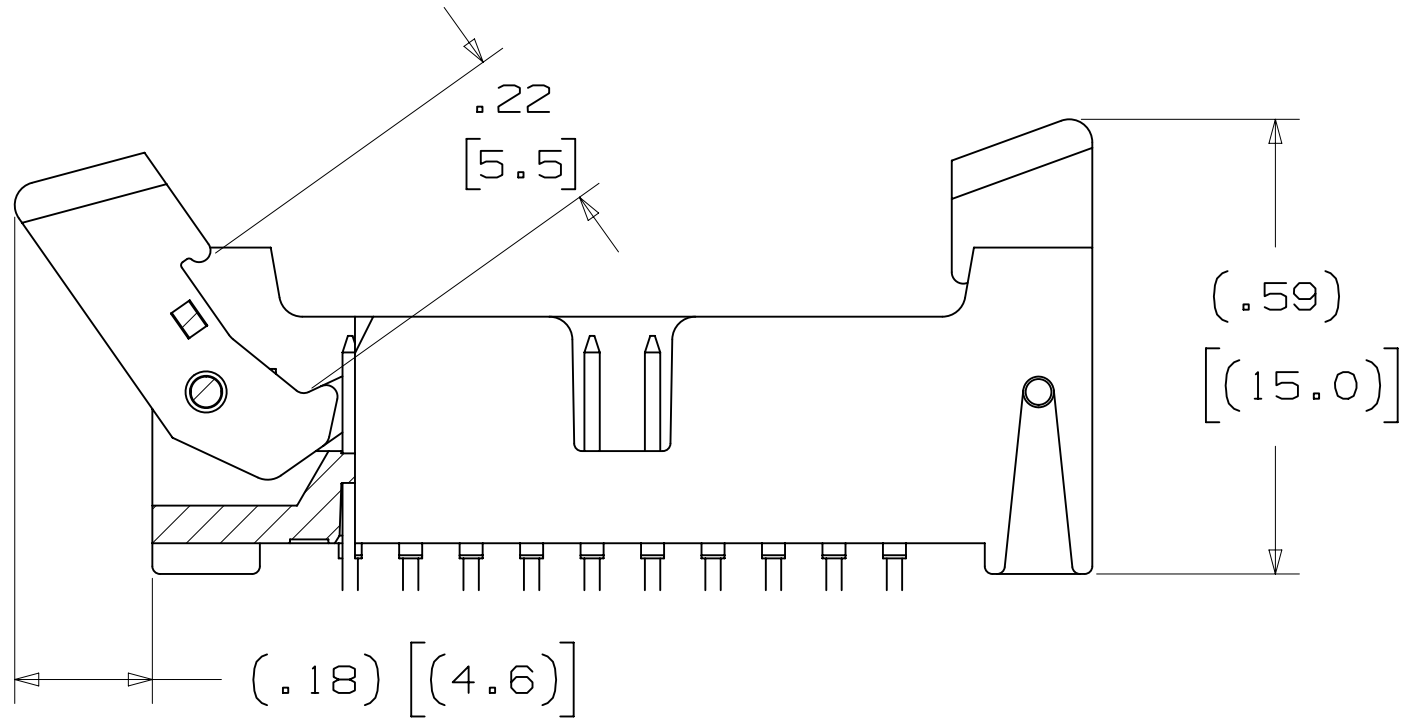
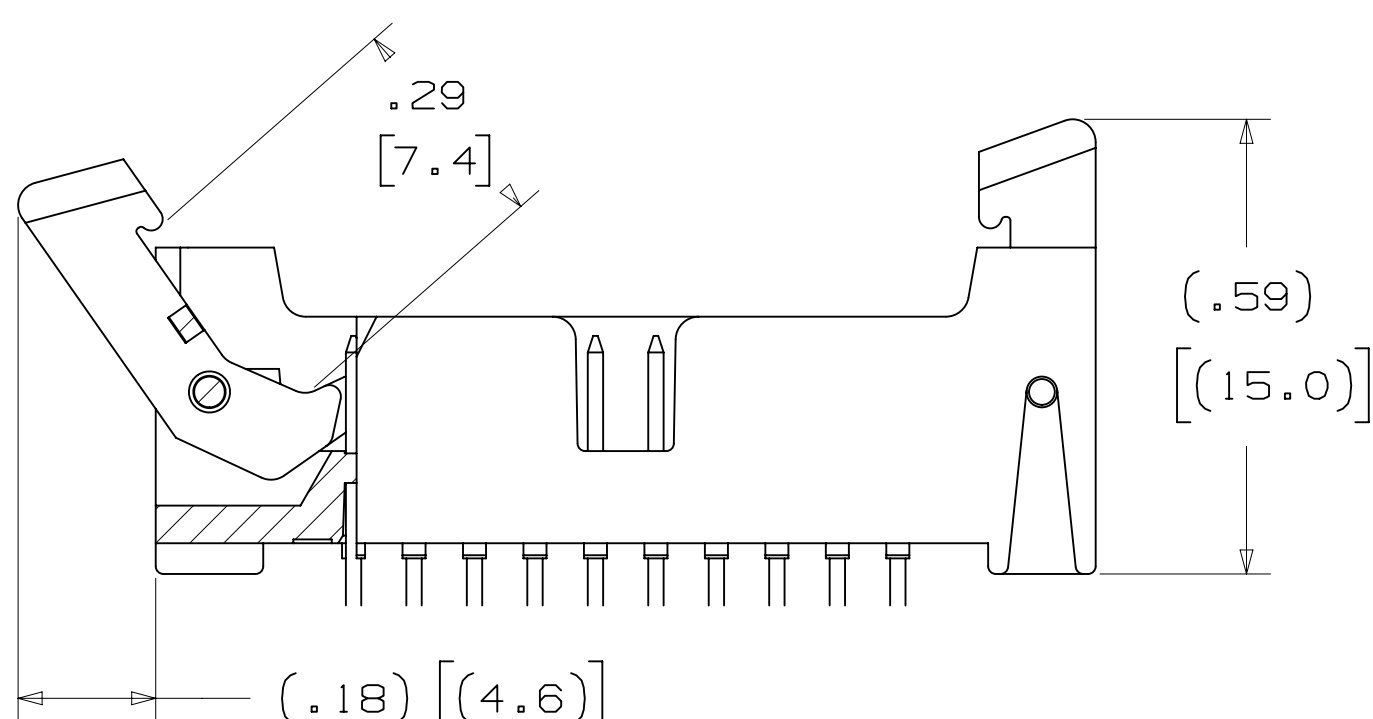


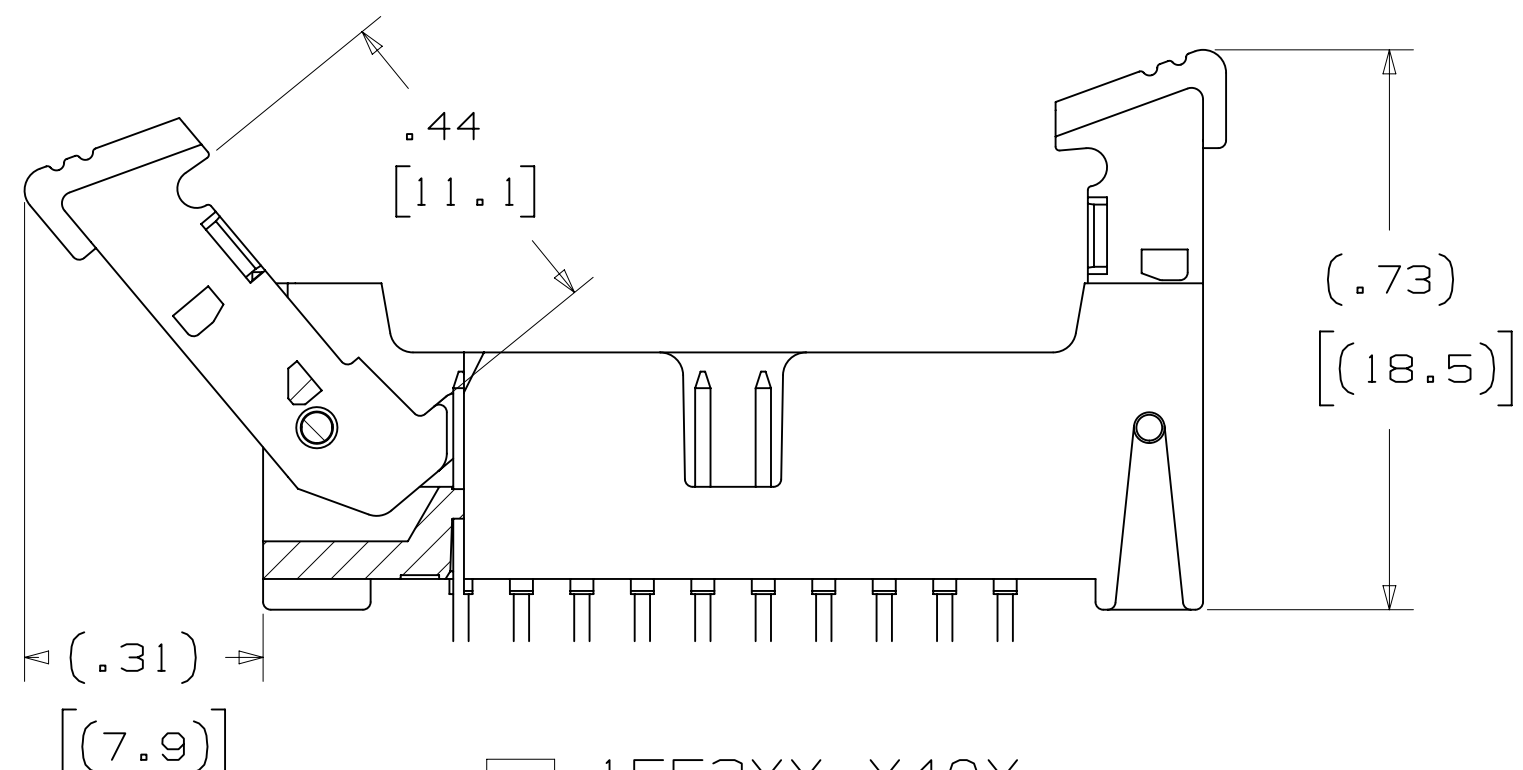
3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



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.

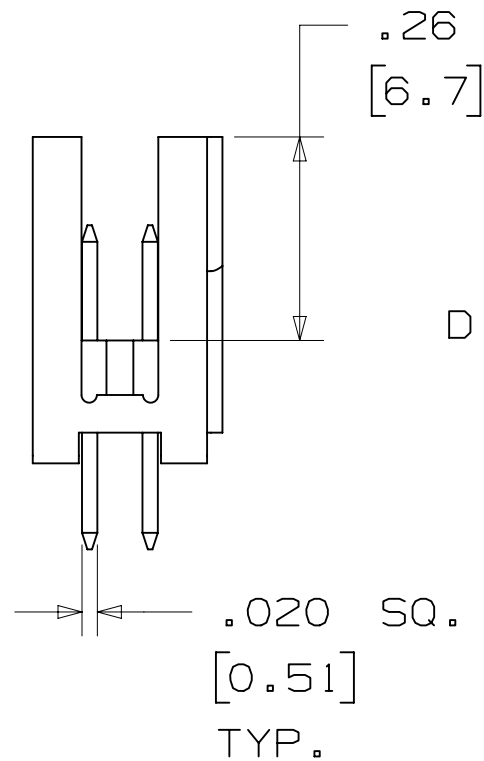
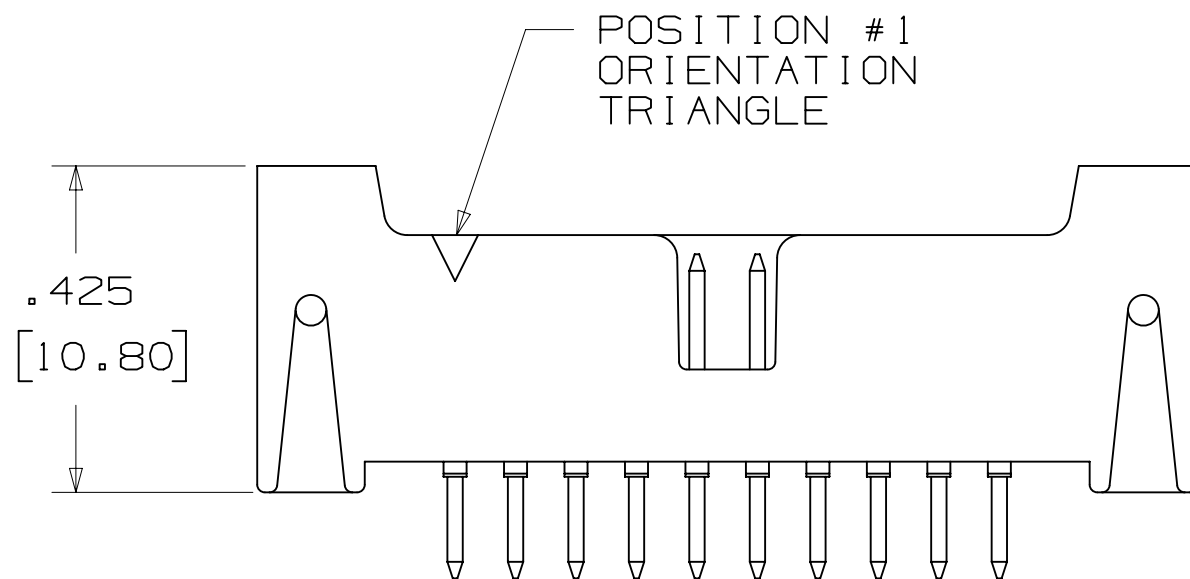
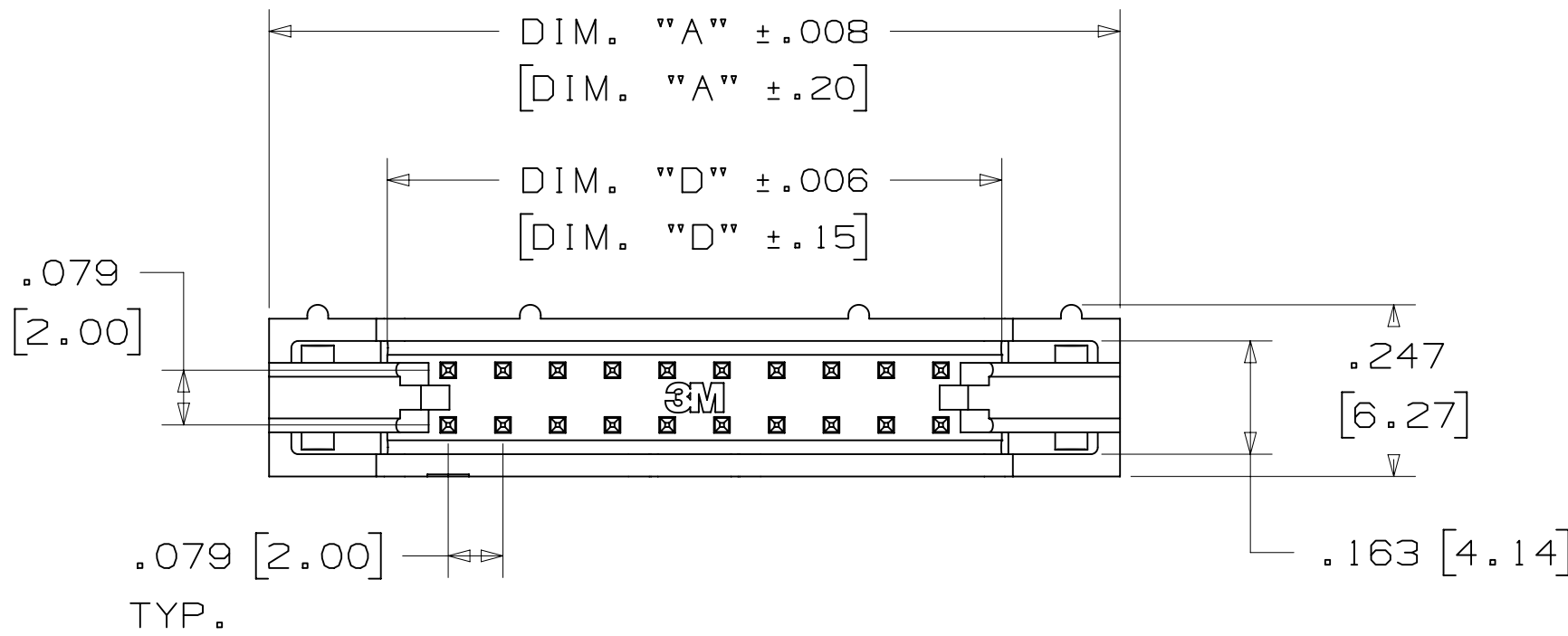
INSULATION RESISTANCE: > 1X10⁹ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

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)

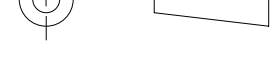
7

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



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

DIMENSIONS: MM [INCHES]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES				DRFT	CASTIGLIONE	DATE	JAN 21, 2015	MFG	DATE
				CHKD		DATE		APPR	DATE
								R. SCHERER	JAN 21, 2015
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		EMSD							
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		INCHES		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT					
THIRD ANGLE PROJECTION		.00 ± .01 ± .008 ± .0000 ±							
		MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2009		.00 ± .30 ± .20 ± .00 ±		CAGE NUMBER D 78-5100-2199-7					
MAX. SURFACE ROUGHNESS		.00 ± .20 ± .00 ±							
SURFACES		.00 ± .20 ± .00 ±							
✓ MARKED ONLY		ANGLES		MODEL		SIZE		DRAWING NO.	
				1552		DET.		L	
						LISTS		YES	
						YES		NO	
						SHT		1 OF 4	

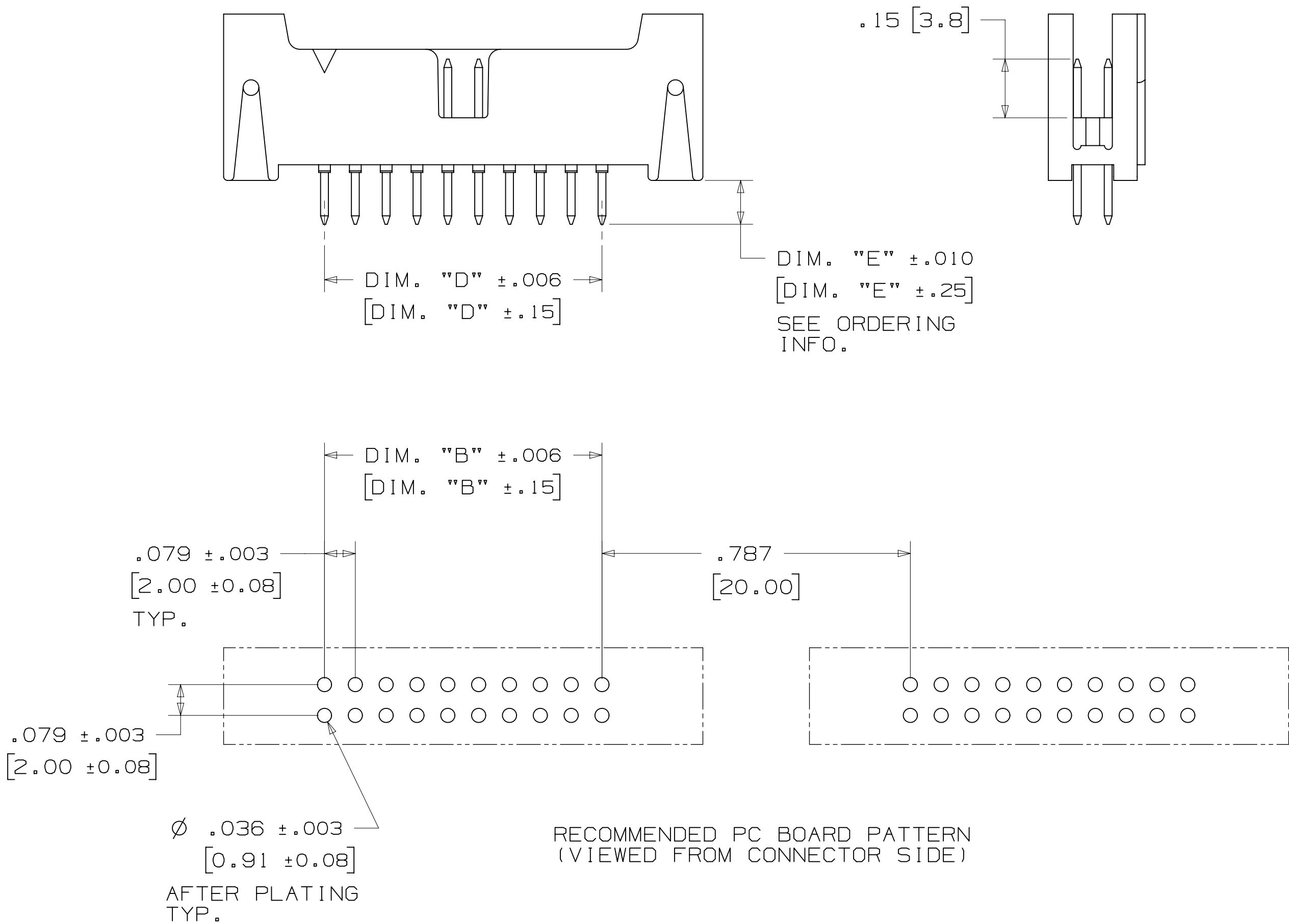
- NOTES
1. MATERIAL: PLASTIC: GLASS FILLED POLYESTER (LCP) UL94V-0, BLACK CONTACT: COPPER ALLOY.
 2. PLATING: 50μ NICKEL UNDERPLATING WIPE AREA: SEE ORDERING INFO. SOLDER TAIL: 200μ MATTE TIN.
 3. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT 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>

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

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

STRAIGHT VERSION



ORDERING INFORMATION
1552XX-6X0X-XX

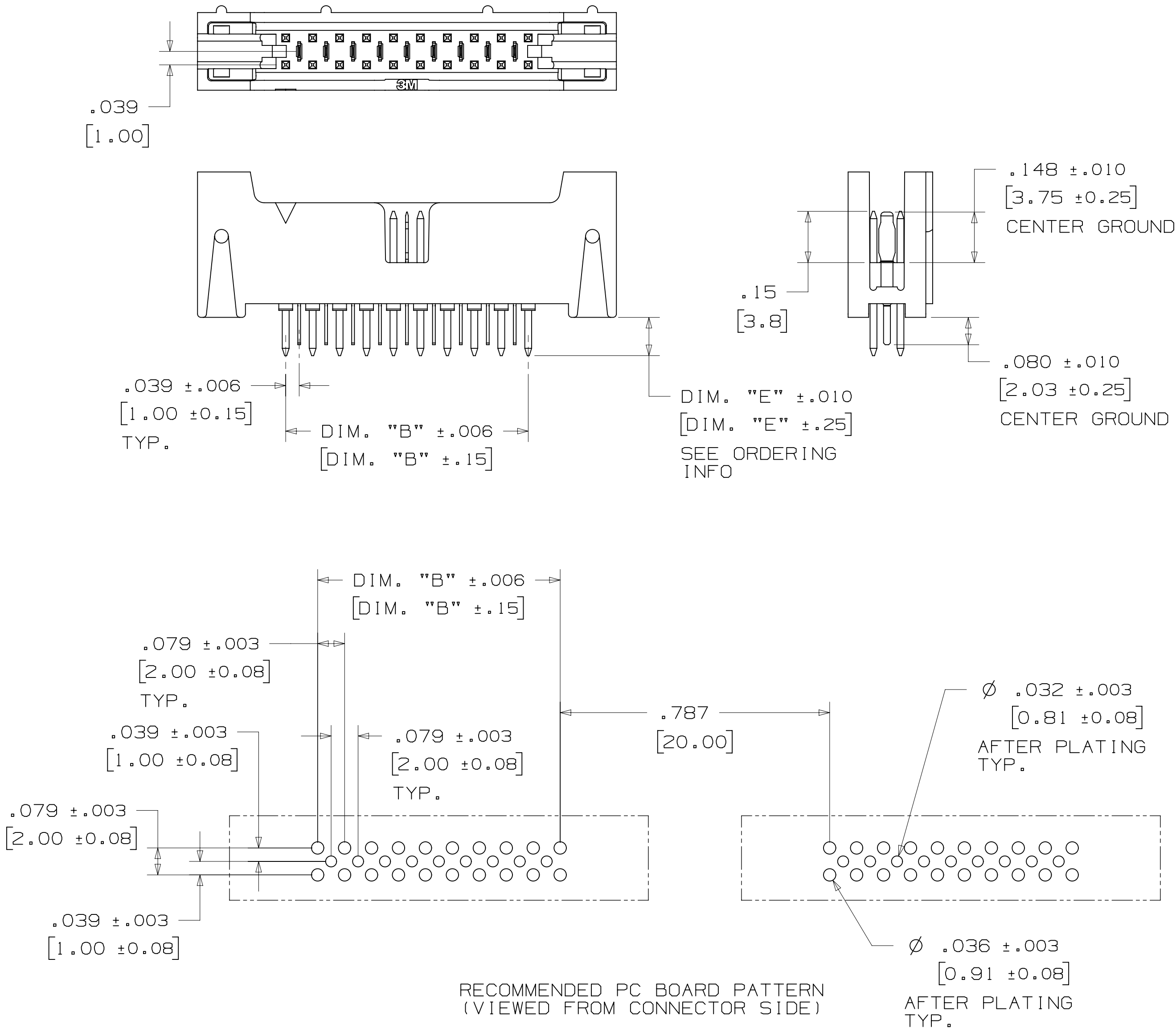
CONTACT QUANTITY: _____

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: _____

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
XREF CODES				DRP	CASTIGLIONE	DATE	MFG	DATE	
				CHKD		DATE	APPR	DATE	
DIVISION		DIVISION CODE		JAN 21, 2015					
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED					
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES					
				.0 ±.01					
				.000 ±.008					
MAX SURFACE ROUGHNESS		SURFACES		MILLIMETERS					
				0 ±.3					
				.00 ±.20					
MARKED ONLY		ANGLES		CAGE NUMBER					
				D 78-5100-2199-7					
				MODEL 1552					
				LISTS YES NO SHT 2 OF 4					

L 58601

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

JNC RS

3M

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St. Paul,
MN 55144

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TITLE

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

CAGE NUMBER

D 78-5100-2199-7

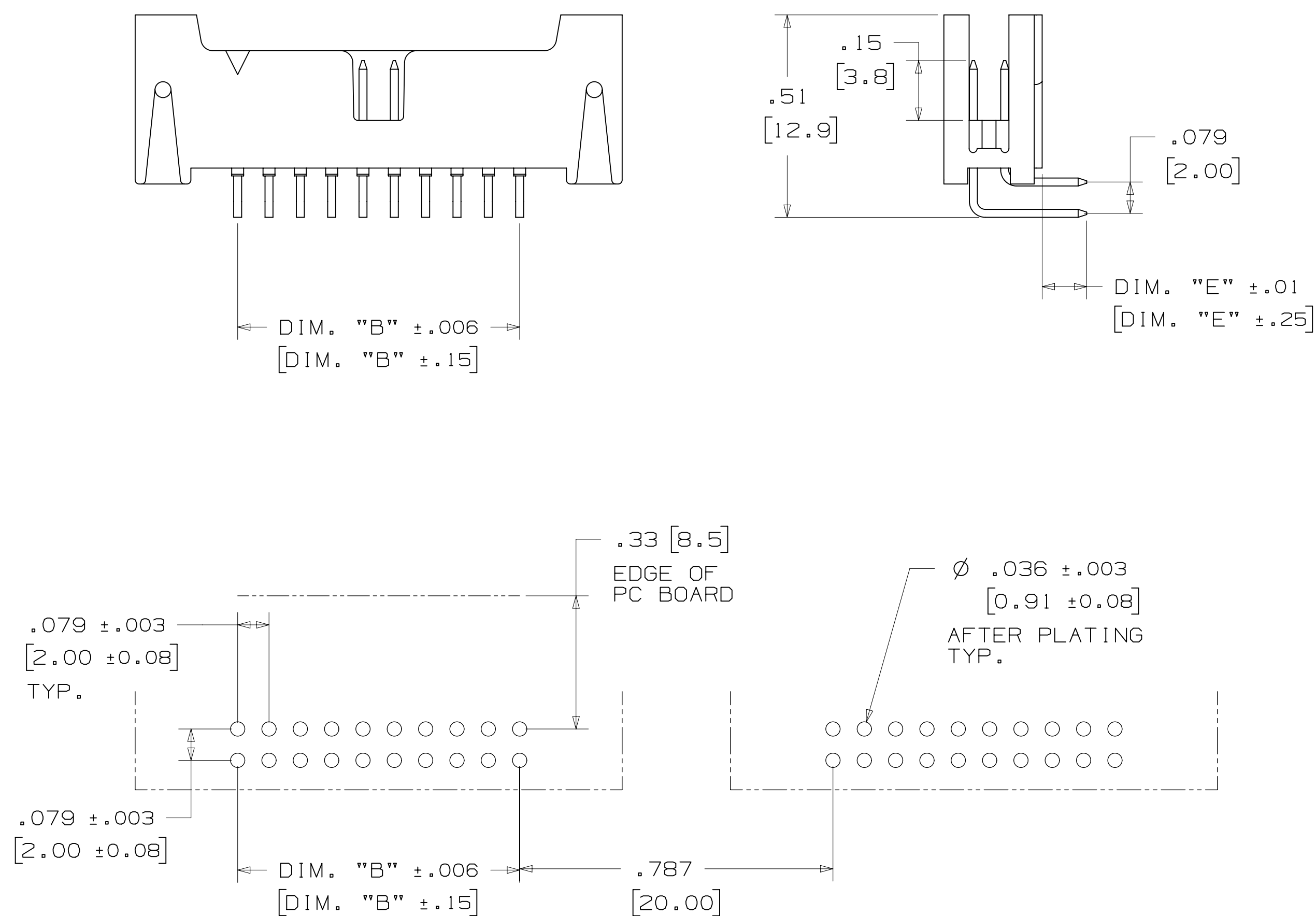
REV.

L

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

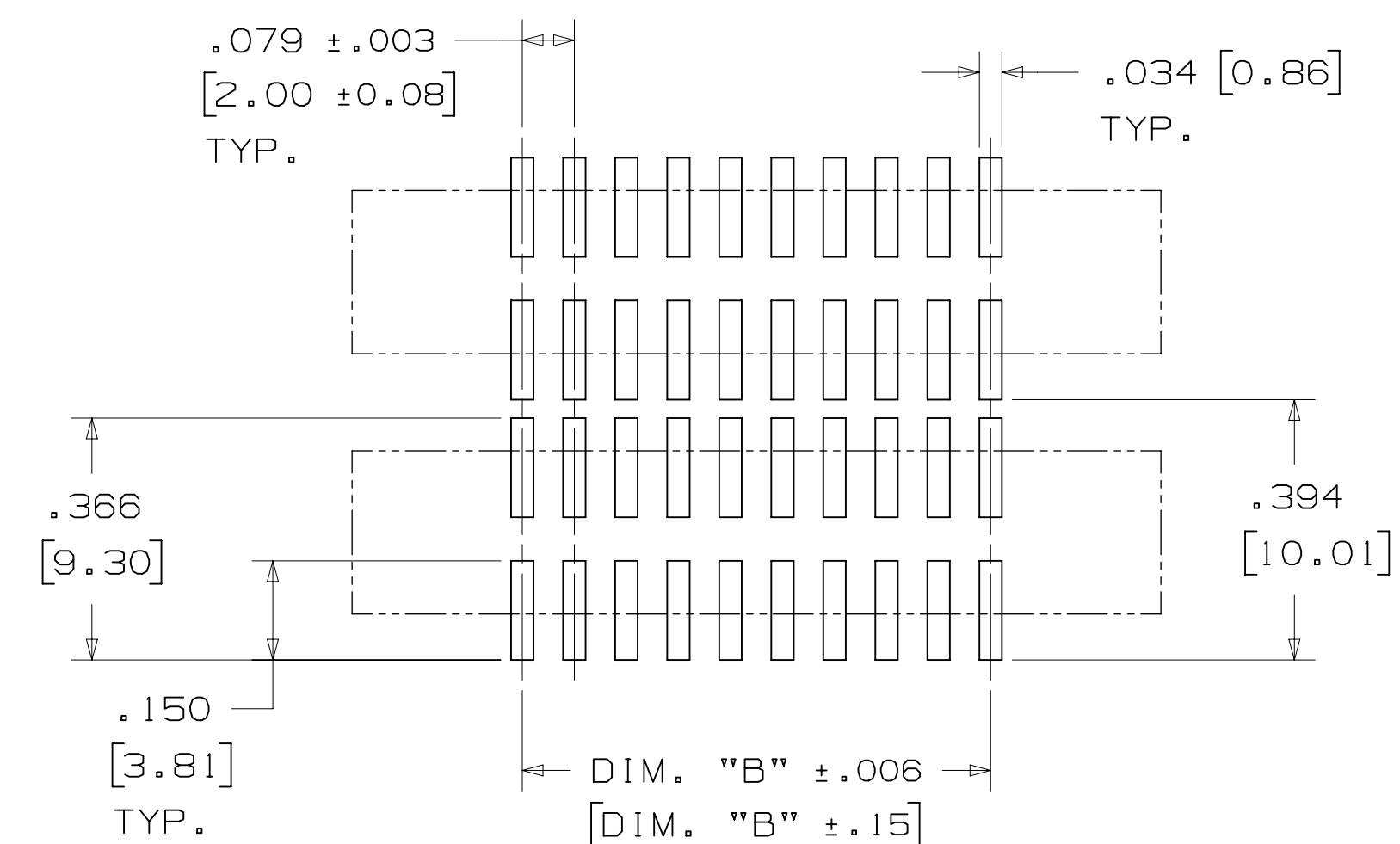
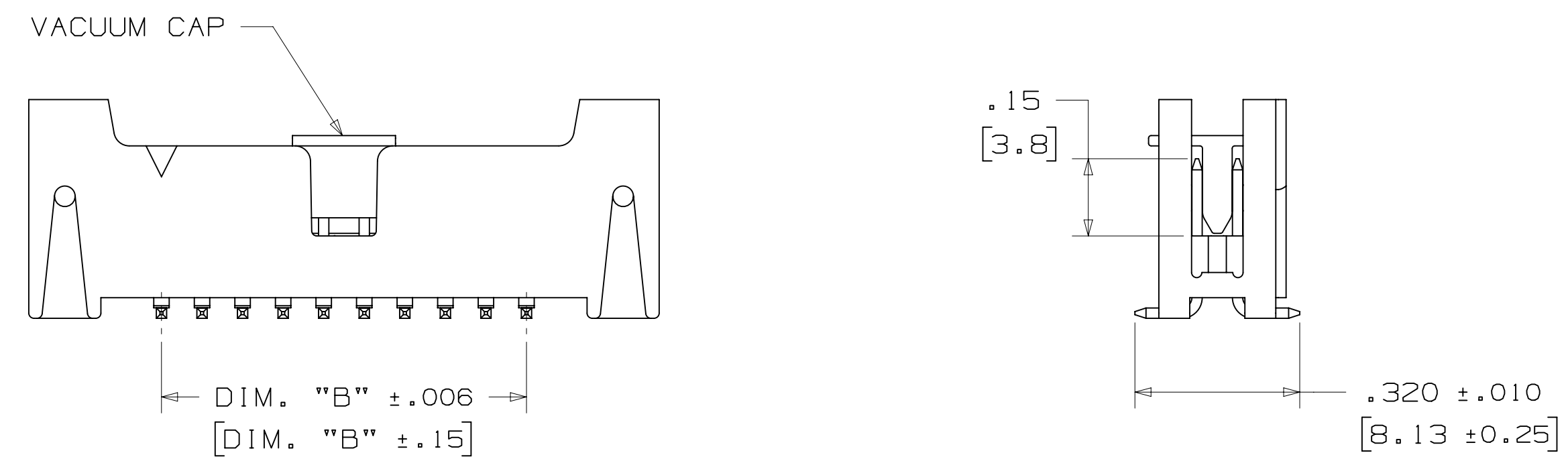
- PLATING OPTIONS:
RB = 30 μ IN [.76 μ m] GOLD
RA = 10 μ IN [.25 μ m] GOLD
(RIA E1 & C1 APPLY) FOR
BOTH PLATINGS

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

SURFACE MOUNT VERSION

NOTES:

- 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: _____

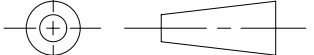
2 = LATCH, MOLDED-ON SOCKET WITH
LATCHING EARS, SERIES: 870, 2MM

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		DRAFT	CHKD
ADDRESS 00000				PART CASTIGLIONE		DATE JAN 21, 2015		APPROV. R. SCHERER	DATE JAN 21, 2015
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THIRD ANGLE PROJECTION 		INCHES .00 ± .00 ±.01 .000 ±.00B .0000 ±		SIZE 1552		DET. ISTS		YES ☒ NO ☐	
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± .0 ±.3 .00 ±.20 .000 ±		MODEL		SHT		3 OF 4	
MAX. SURFACE ROUGHNESS 		ANGL. DEG.							
☒ MARK SURFACES ☐ MARK ONLY									

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

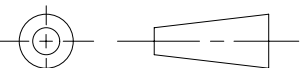
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L		58601		AUG 11, 2016		JNC		RS	
				8-11-16 ADD SHT 4					
				REVISE TRADEMAKE NOTE					
				JUN 01, 2016					
				PRODUCTION RELEASE,					
				APR 29, 2016					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECD		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ACCESS CODES				DRW CASTIGLIONE		DATE JUN 21, 2015		MFG DATE	
				CHRD		DATE		APPRV. R. SCHERER	
								DATE JUN 21, 2015	
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INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± .0 ± .3 .00 ± .20 .000 ±		CAGE NUMBER D 78-5100-2199-7		SIZE DRWING NO.		REV. L	
MAX. SURFACE ROUGHNESS  SURF ACES ✓ ☐ MARKED ONLY		ANGLES 1552		MODEL 1552		DET. LISTS ☐ YES ☒ NO		SHT 4 OF 4	

Mouser Electronics

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