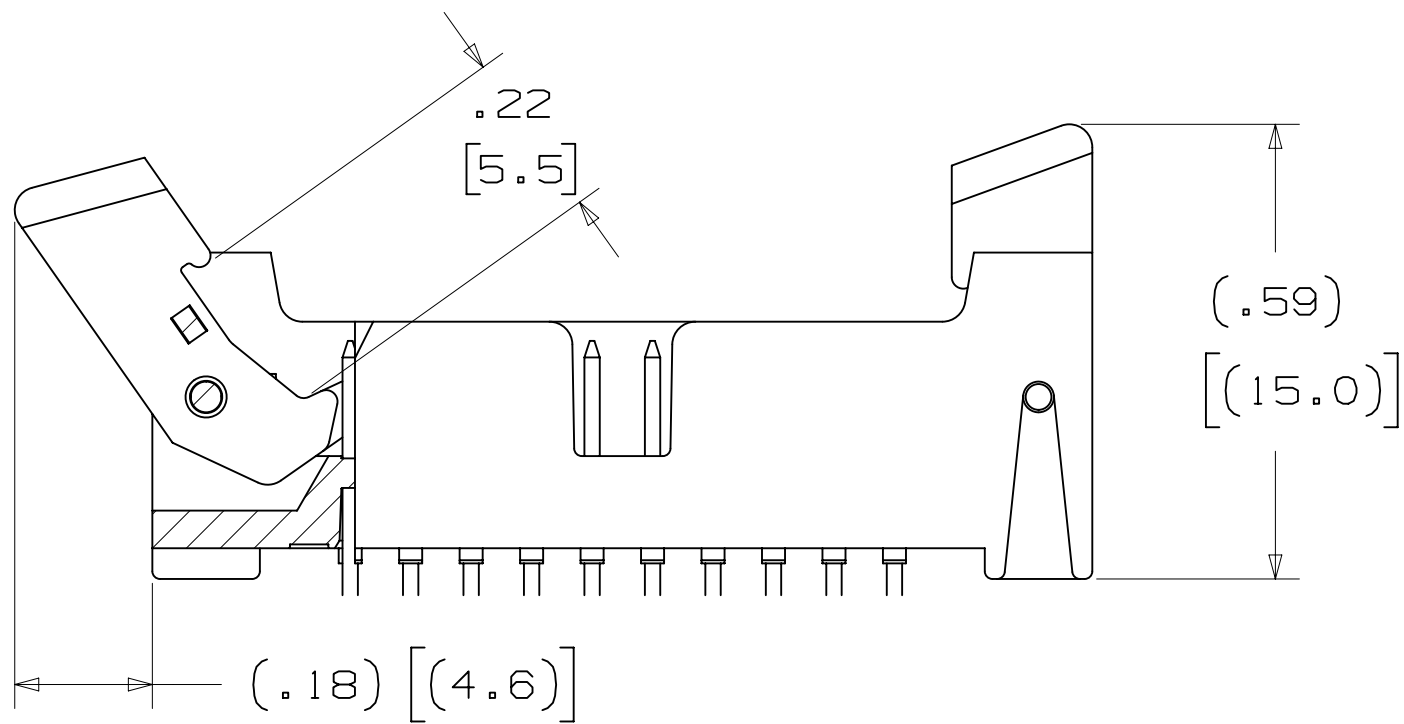
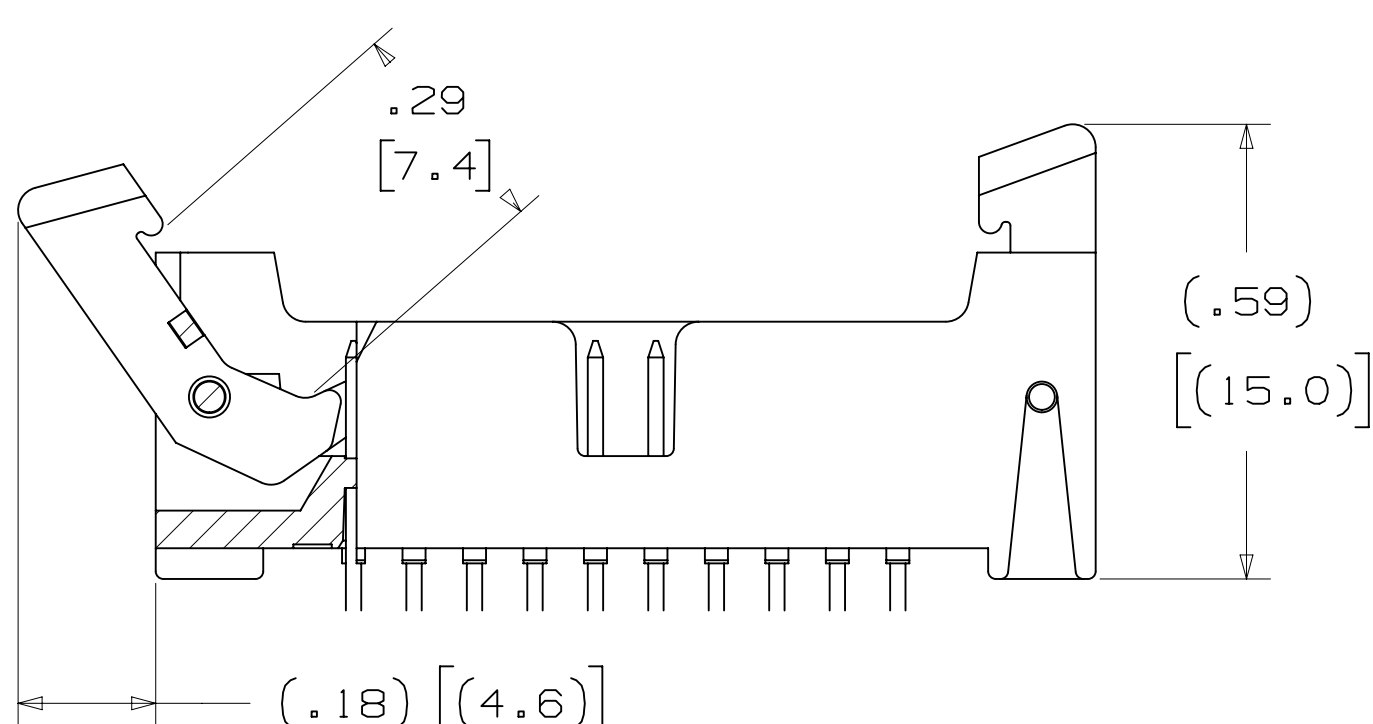


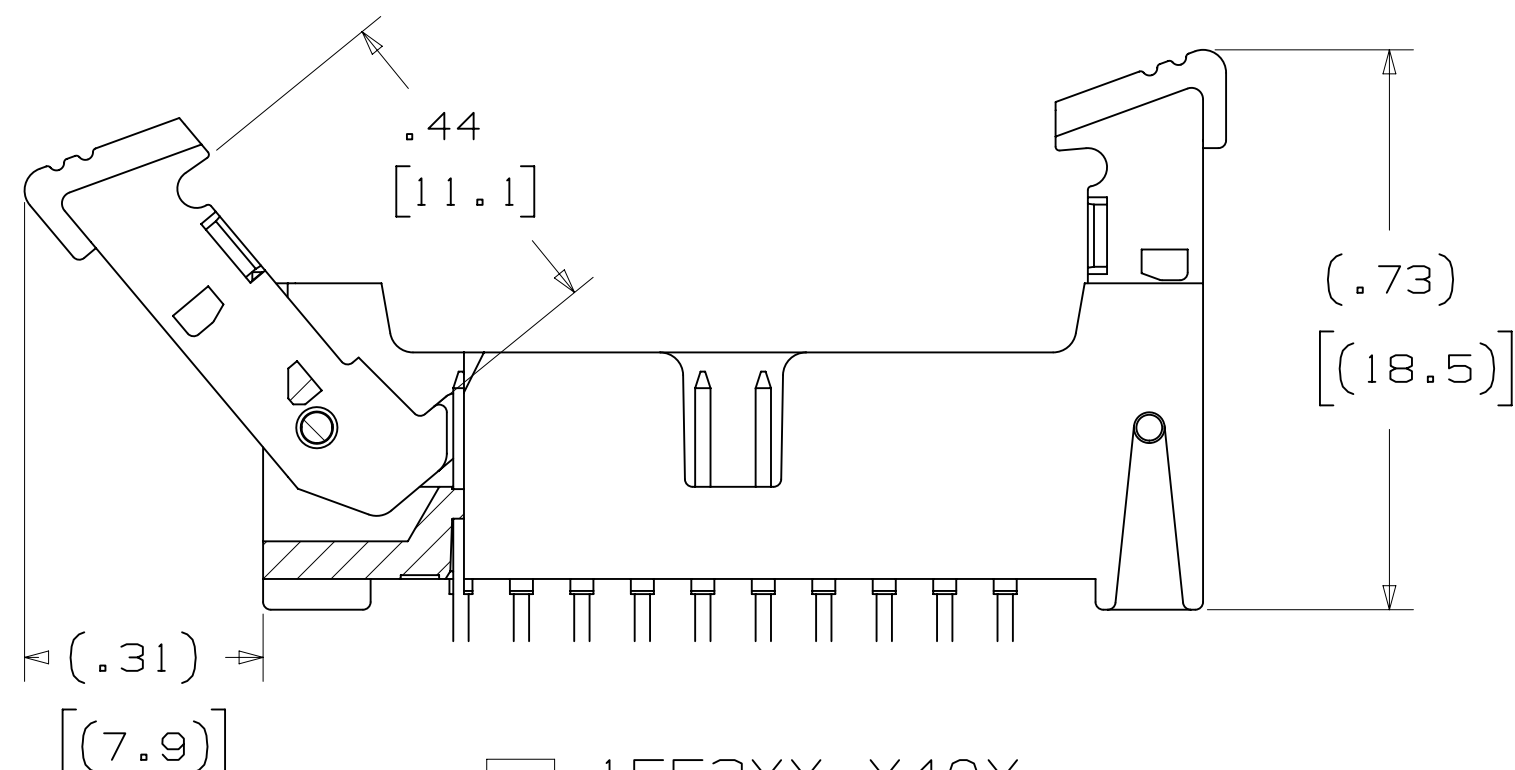
3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



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.

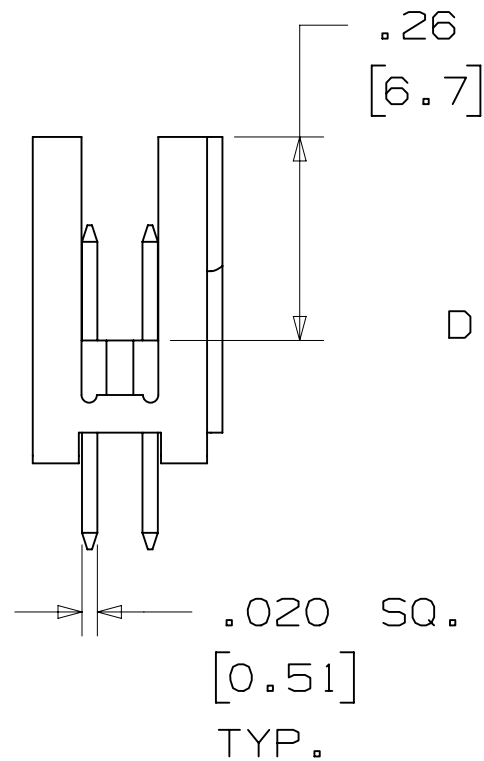
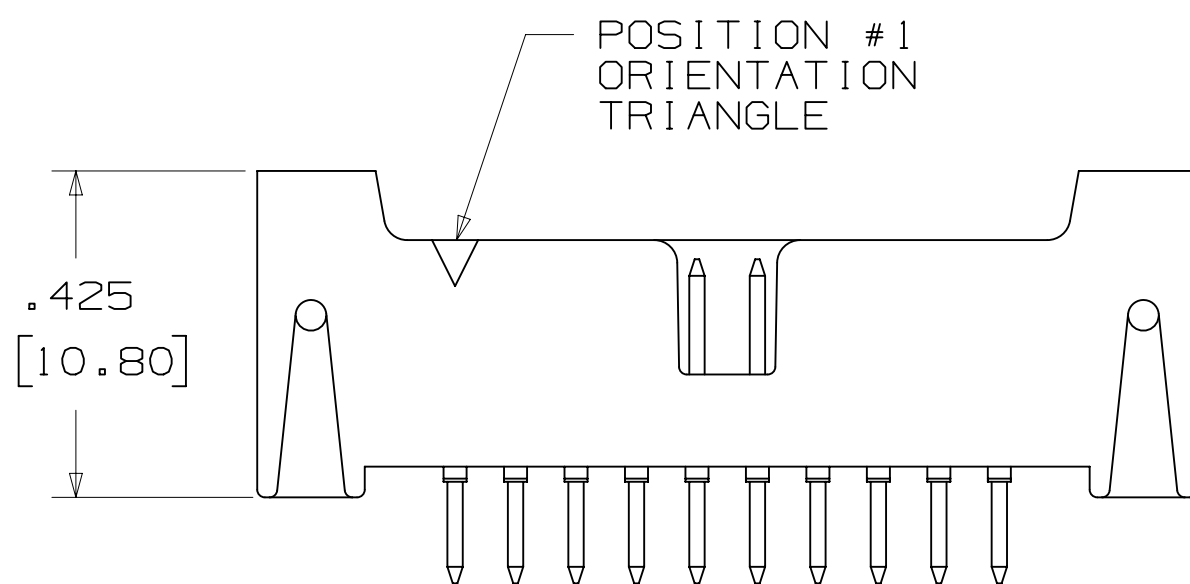
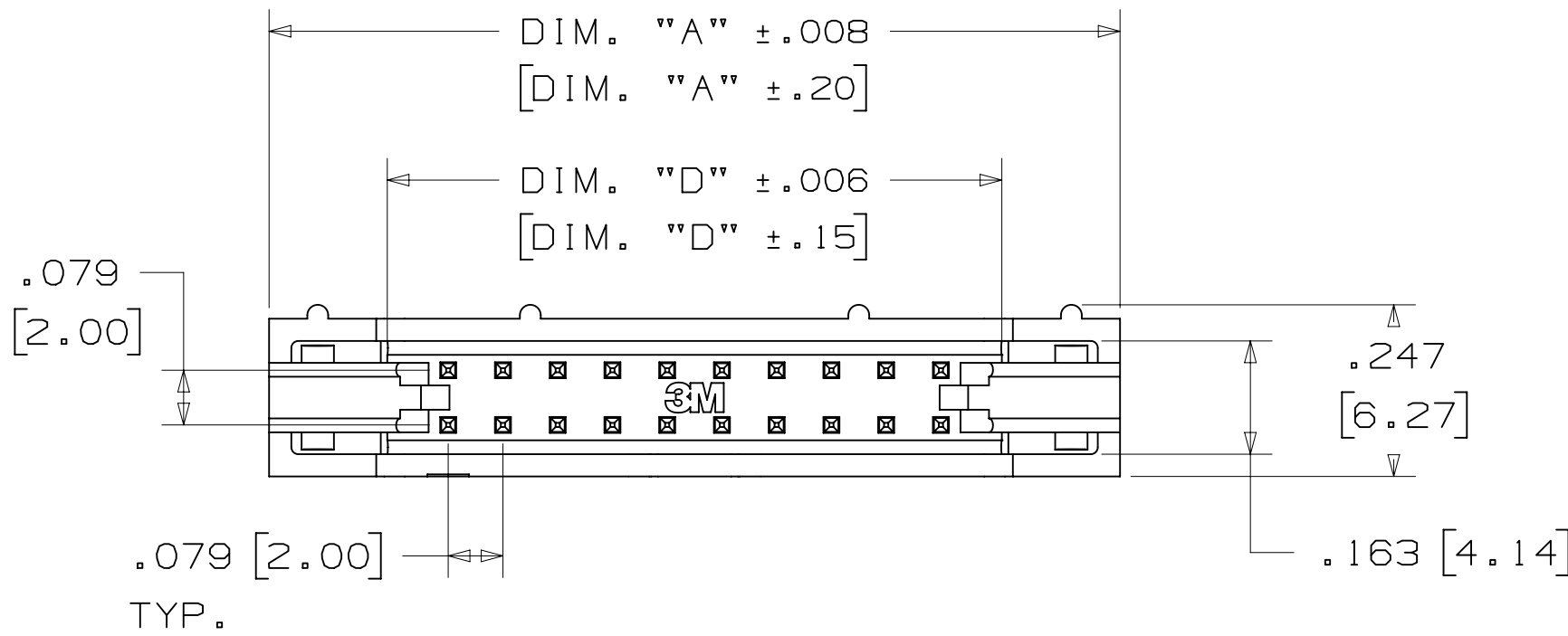
INSULATION RESISTANCE: > 1X10⁹ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

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



DIMENSIONS: MM [INCHES]

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

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INFORMATION CALL 800-225-5373

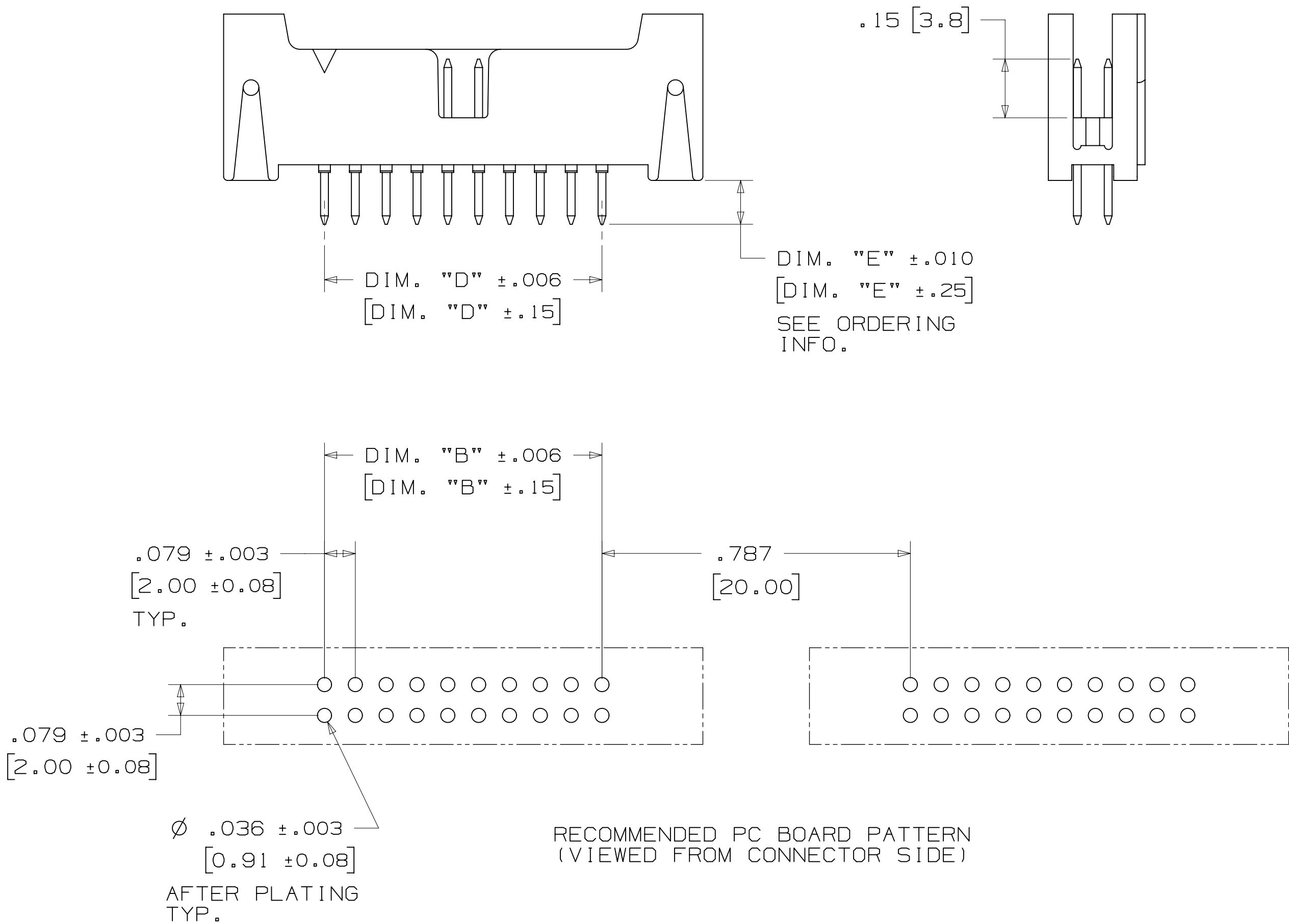
- NOTES
1. MATERIAL:
PLASTIC:
GLASS FILLED POLYESTER (LCP)
UL94V-0, BLACK
CONTACT: COPPER ALLOY.
 2. PLATING:
50μ NICKEL UNDERPLATING
WIPE AREA: SEE ORDERING INFO.
SOLDER TAIL: 200μ MATTE TIN.
 3. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT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

- * 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.

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD	
ADDRESS CODES				DRFT	CASTIGLIONE		DATE	JAN 21, 2015	MFG	DATE
				CHKD			DATE		APPV	DATE
									R. SCHERER	JAN 21, 2015
DIVISION		DIVISION CODE								
		EMSD								
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						3M Center St. Paul, MN 55144				
THIRD ANGLE PROJECTION				INCHES .00 ± .01 .000 ± .008 .0000 ± .0001		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS .00 ± .3 .00 ± .20 UNLESS OTHERWISE SPECIFIED		CAGE NUMBER D 78-5100-2199-7				
MAX SURFACE ROUGHNESS ✓ LINE SURFACES ✓ MARKED ONLY						DRAWING NO. REV. L				
						MODEL 1552				
						DET. LISTS YES X 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

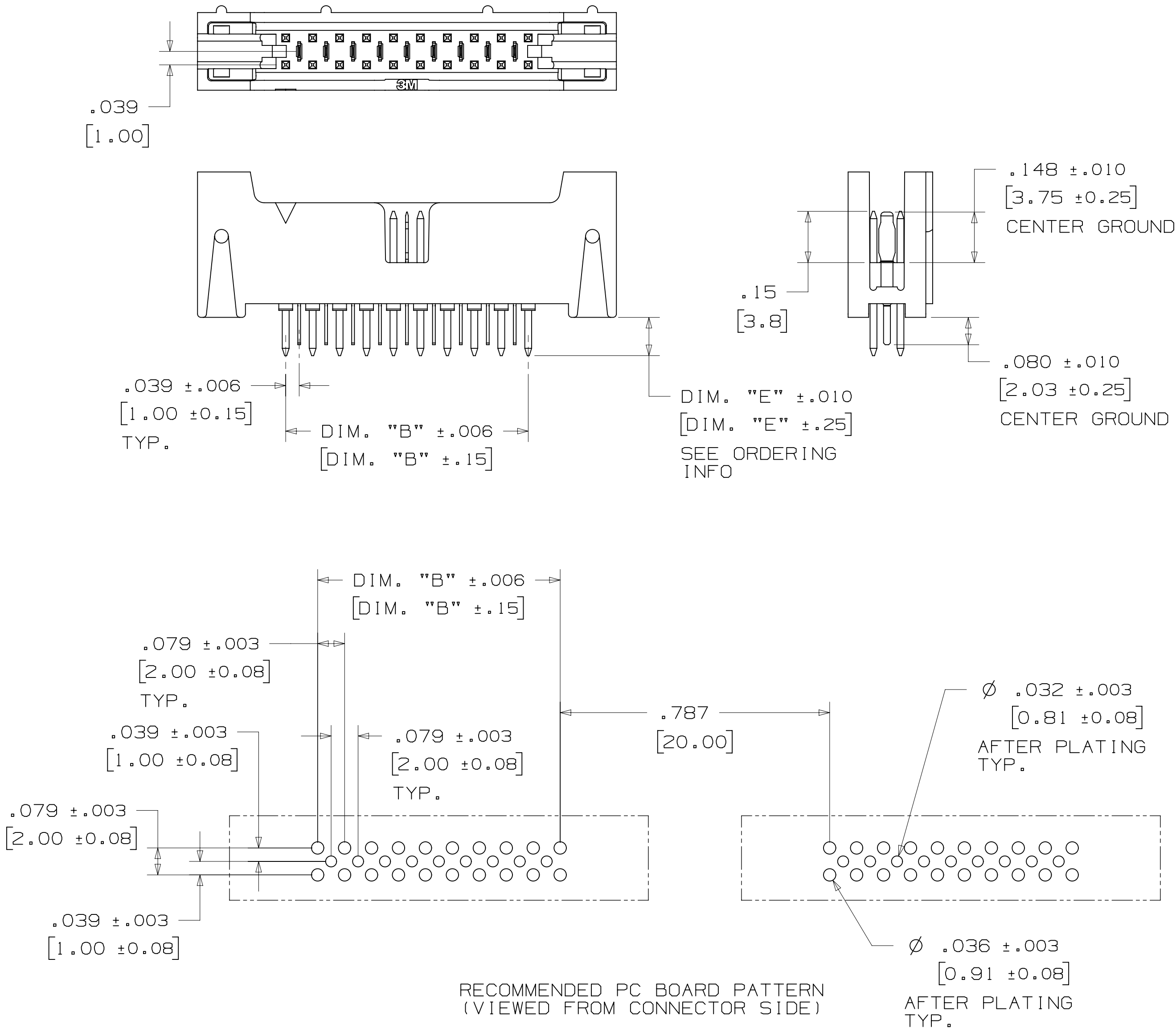
CONTACT QUANTITY: _____

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

3M Center
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

RIGHT ANGLE VERSION



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

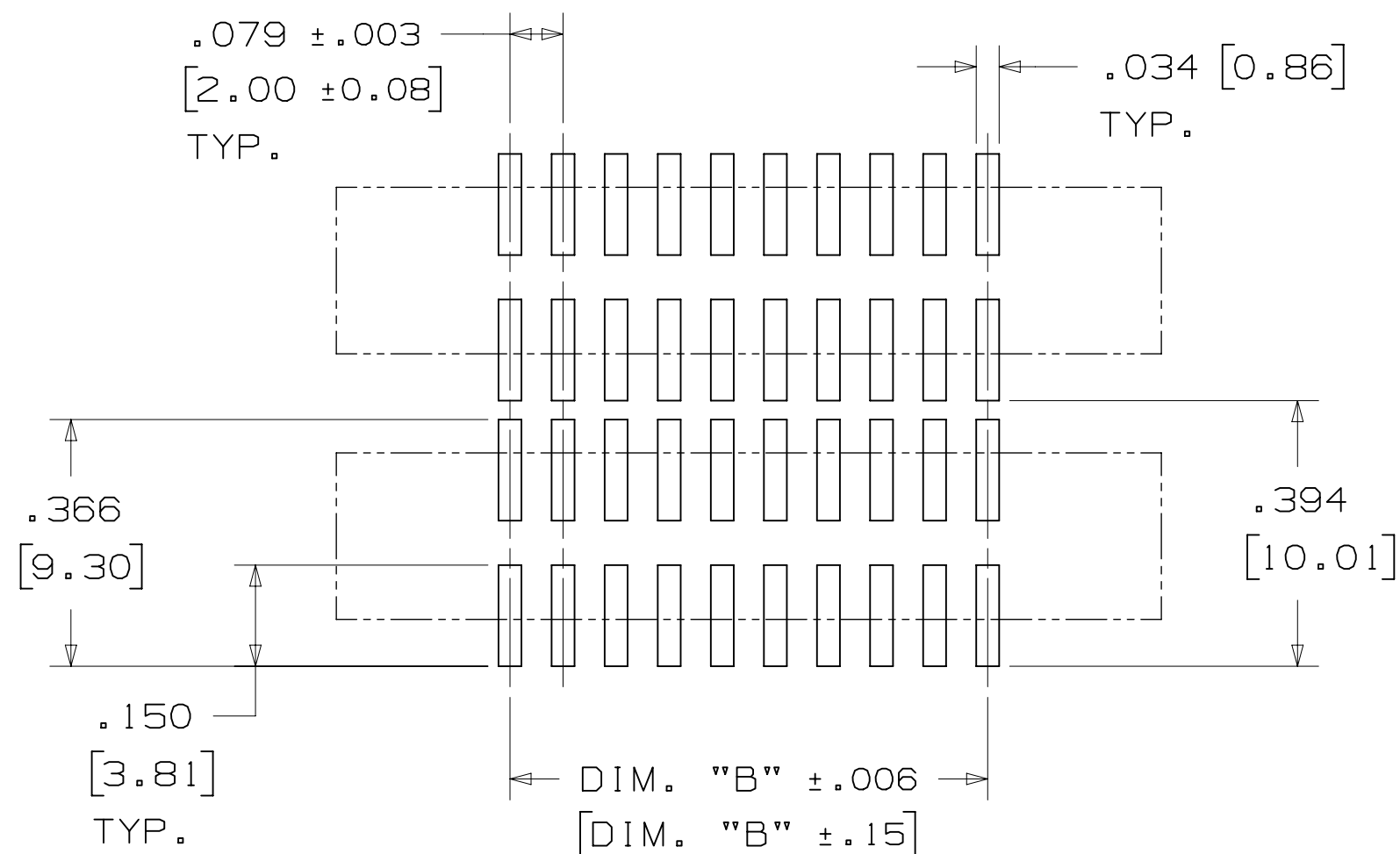
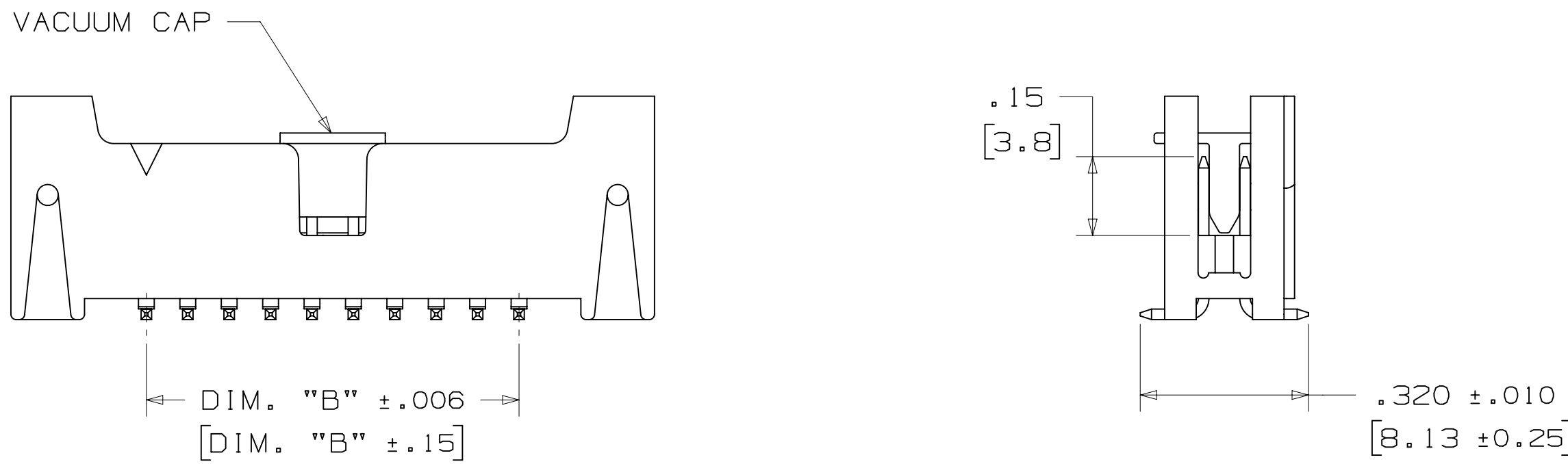
PLATING OPTIONS:
RB = 30 μ IN [.76 μ m] GOLD
RA = 10 μ IN [.25 μ m] GOLD
(RIA E1 & C1 APPLY) FOR
BOTH PLATINGS

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

SURFACE MOUNT VERSION

NOTES:

- 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
ACCESS CODES				DRFT CASTIGLIONE		DATE JAN 21, 2015		WFO	DATE
				CHKD		DATE		APRVL R. SCHERER	DATE JAN 21, 2015
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			INCHES						
			.00 ± .01 .000 ± .008 .0000 ±						
THIRD ANGLE PROJECTION			MILLIMETERS						
INTERPRET PER ASME Y14.5 - 2009			.00 ± .3 .00 ± .20 .00 ±						
MAX SURFACE ROUGHNESS			ANGLES						
✓  12.5									
□ MARKED SURFACES									
TITLE				LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT					
CAGE NUMBER		SIZE		DRAWING NO.		REV.			
D		D		78-5100-2199-7		L			
MODEL		1552		DET. LISTS		YES ☒ NO		SHT 3 OF 4	

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

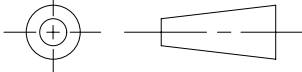
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				L	58601	AUG 11, 2016 8-11-16 ADD SHT 4 REVISION TRADEMAKE NOTE JUN 01, 2016 PRODUCTION RELEASE, APR 29, 2016		JNC	RS		
DESIGN REFERENCE				NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DFT	CHKD
ACCESS CODES						OFFICE CASTIGLIONE		DATE	JUN 21, 2015	MFG	DATE
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				THIRD ANGLE PROJECTION ASME Y14.5 - 2009		INCHES .0 ± .00 ± .01 .0000 ±		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT			
				INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± .0 ± .3 .00 ± .20 .000 ±		CAGE NUMBER SIZE DRAWING NO.		REV.	
☒ MAX SURFACE ROUGHNESS ☐ MARKED ONLY						ANGL DEG		D 78-5100-2199-7 L			
						MODEL 1552		DET. LISTS ☐ YES ☒ NO		SHT 4 OF 4	

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