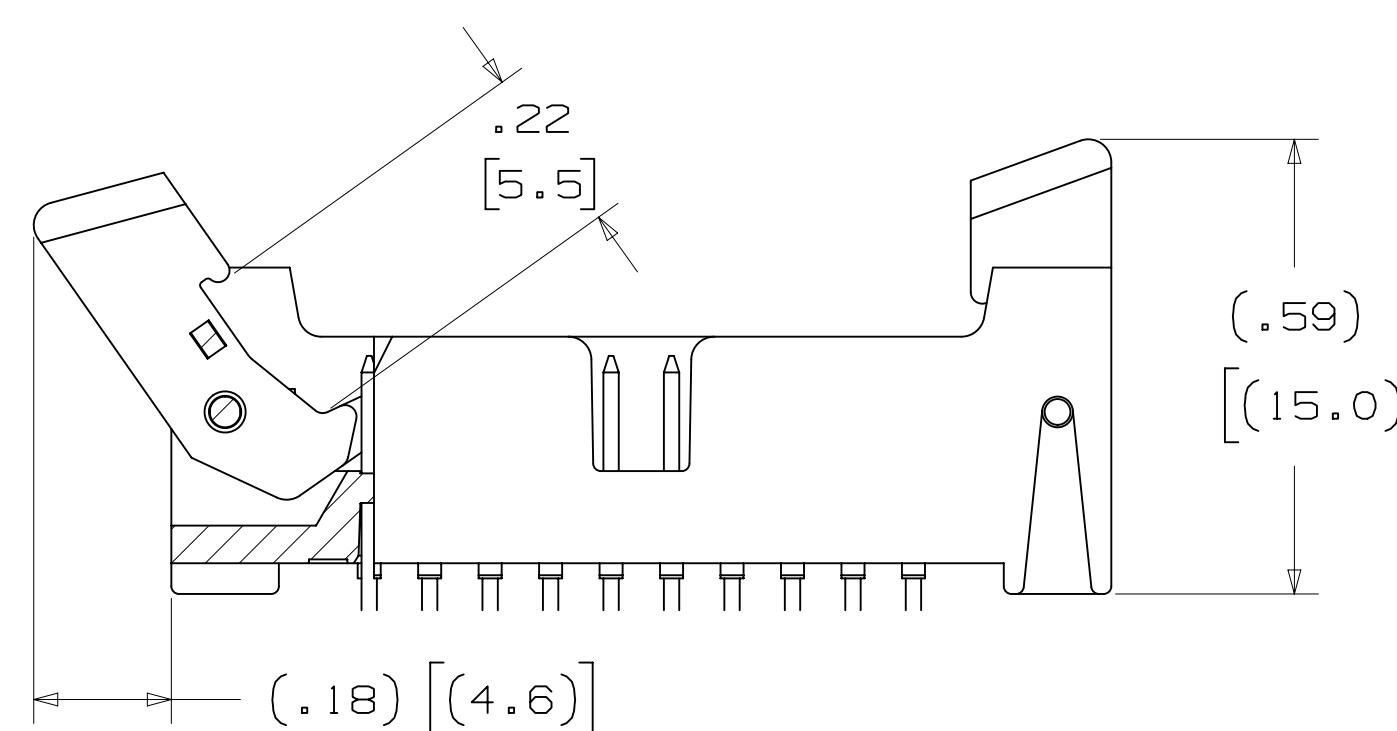
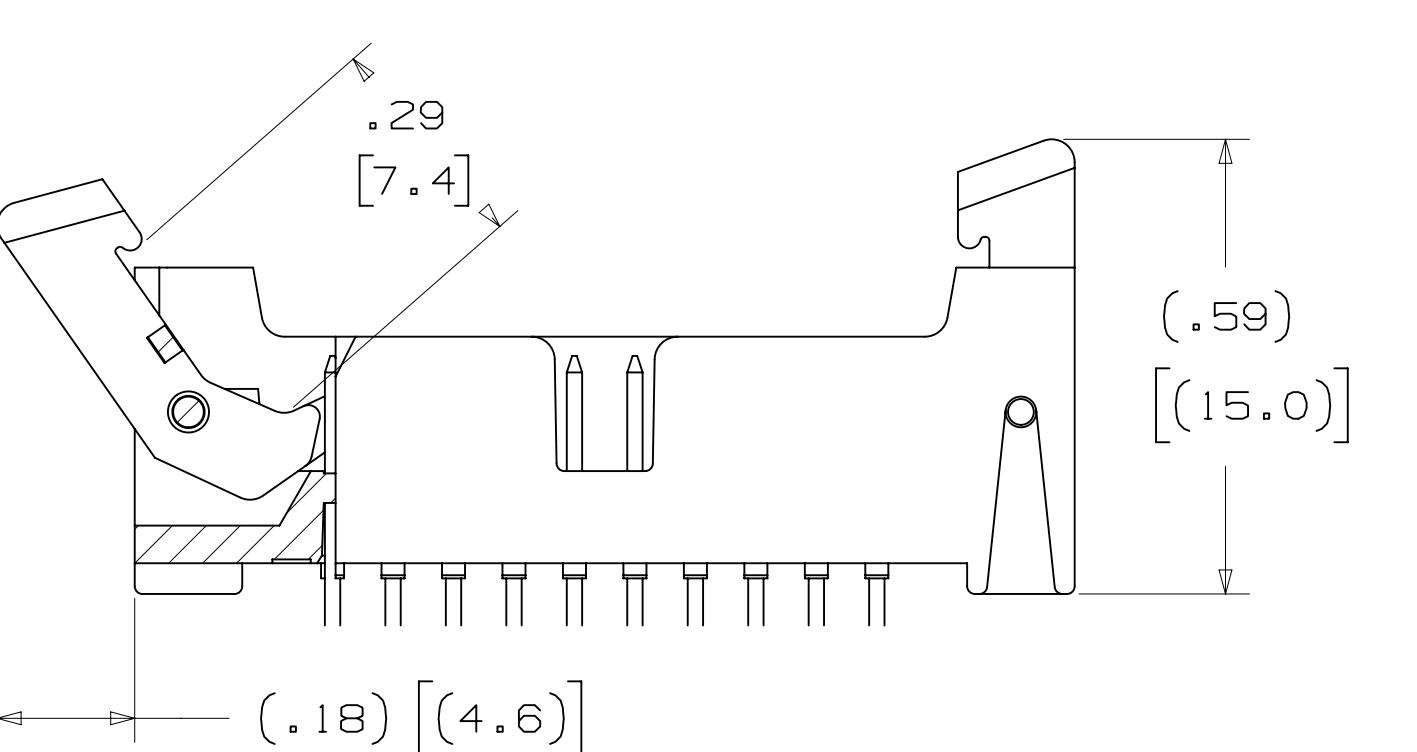


3M™ LATCH/EJECT HEADER, 1552 SERIES

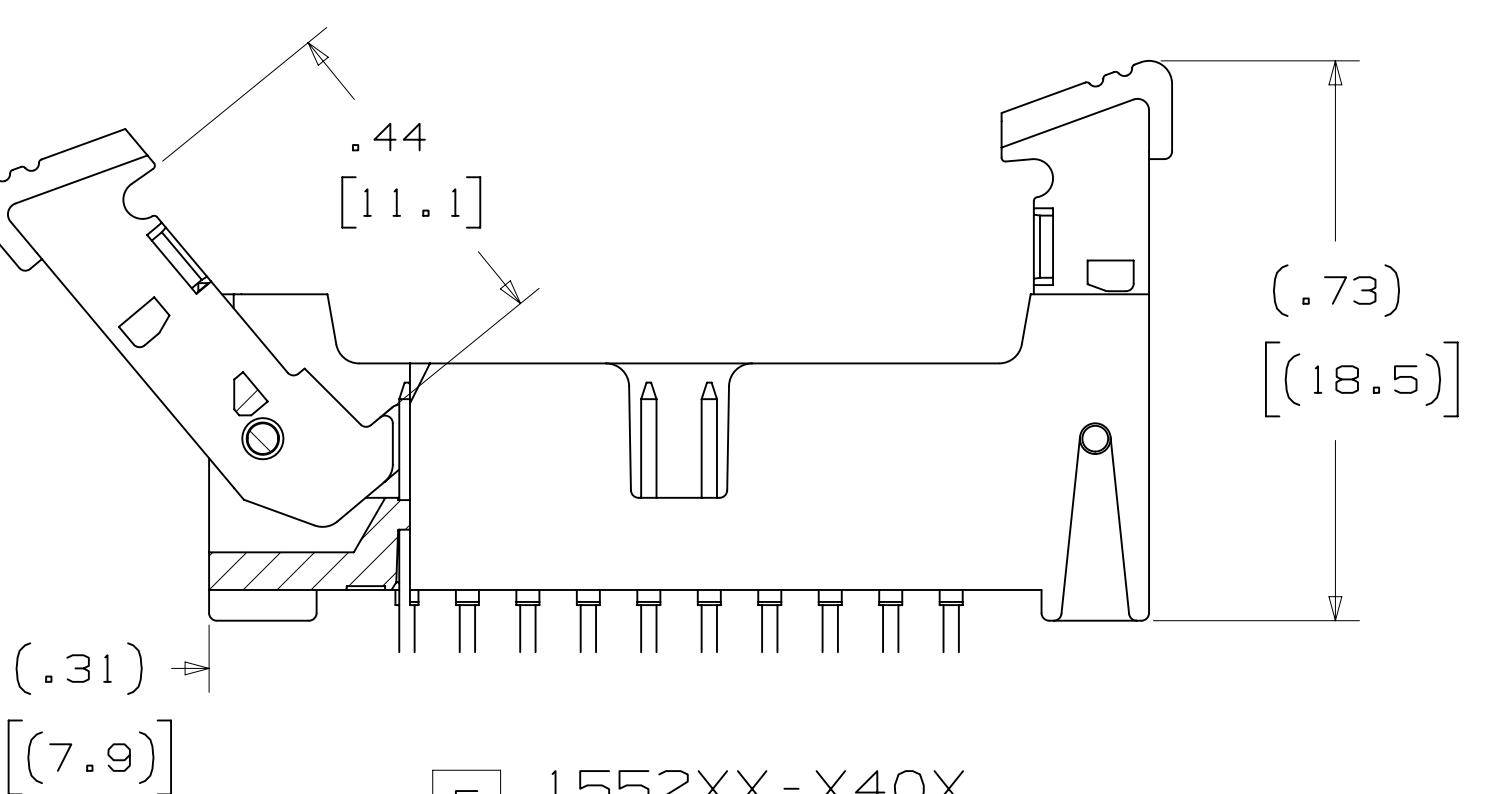
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



[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: $> 1 \times 10^9$ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

- * 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.

3 ENVIRONMENTAL

TEMPERATURE RATING: -55°C TO +105°C

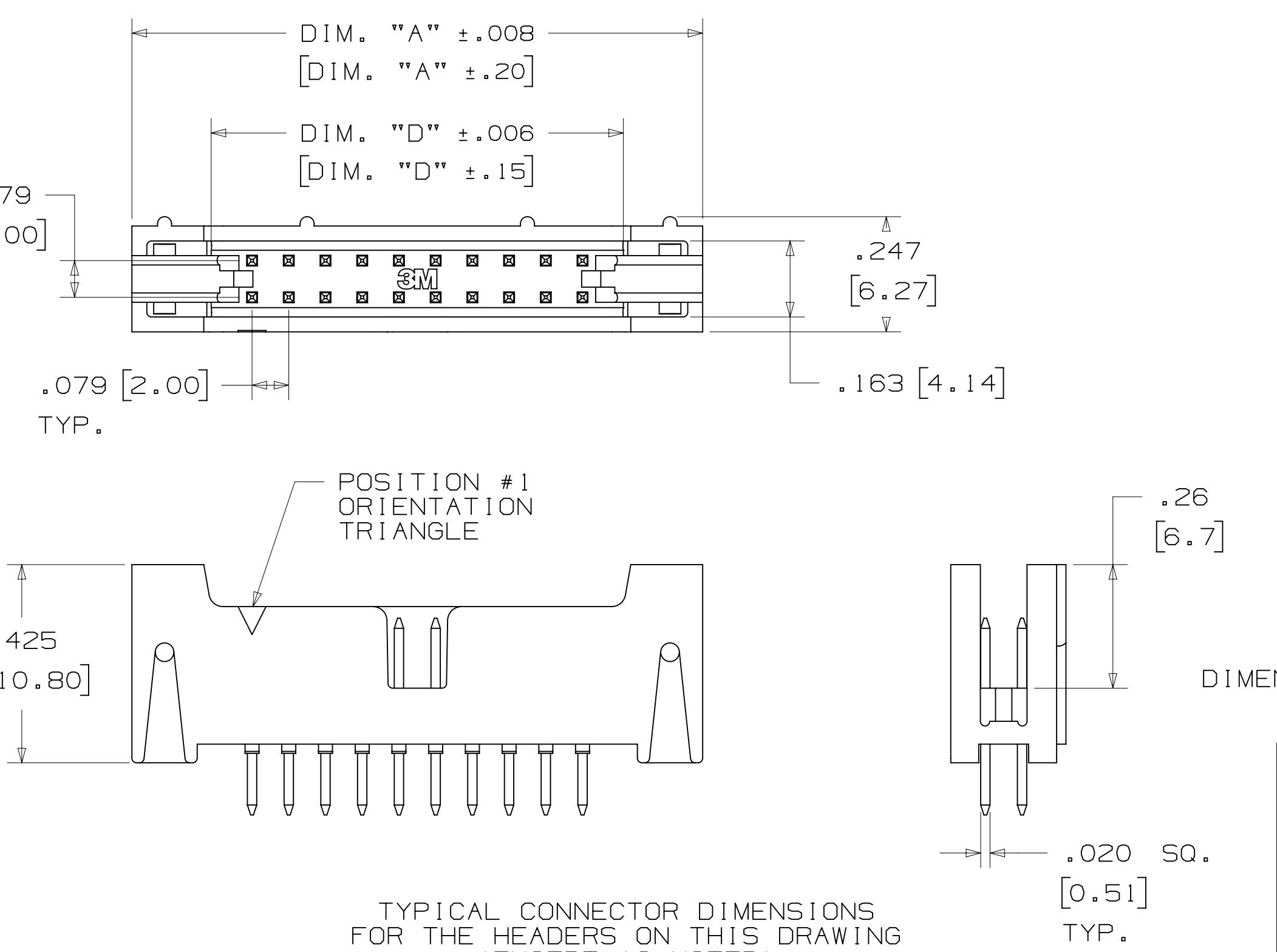
PROCESS RATING: MAXIMUM 260°C (PER J-STD-020)

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

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

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

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INFORMATION CALL 800-225-5373



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

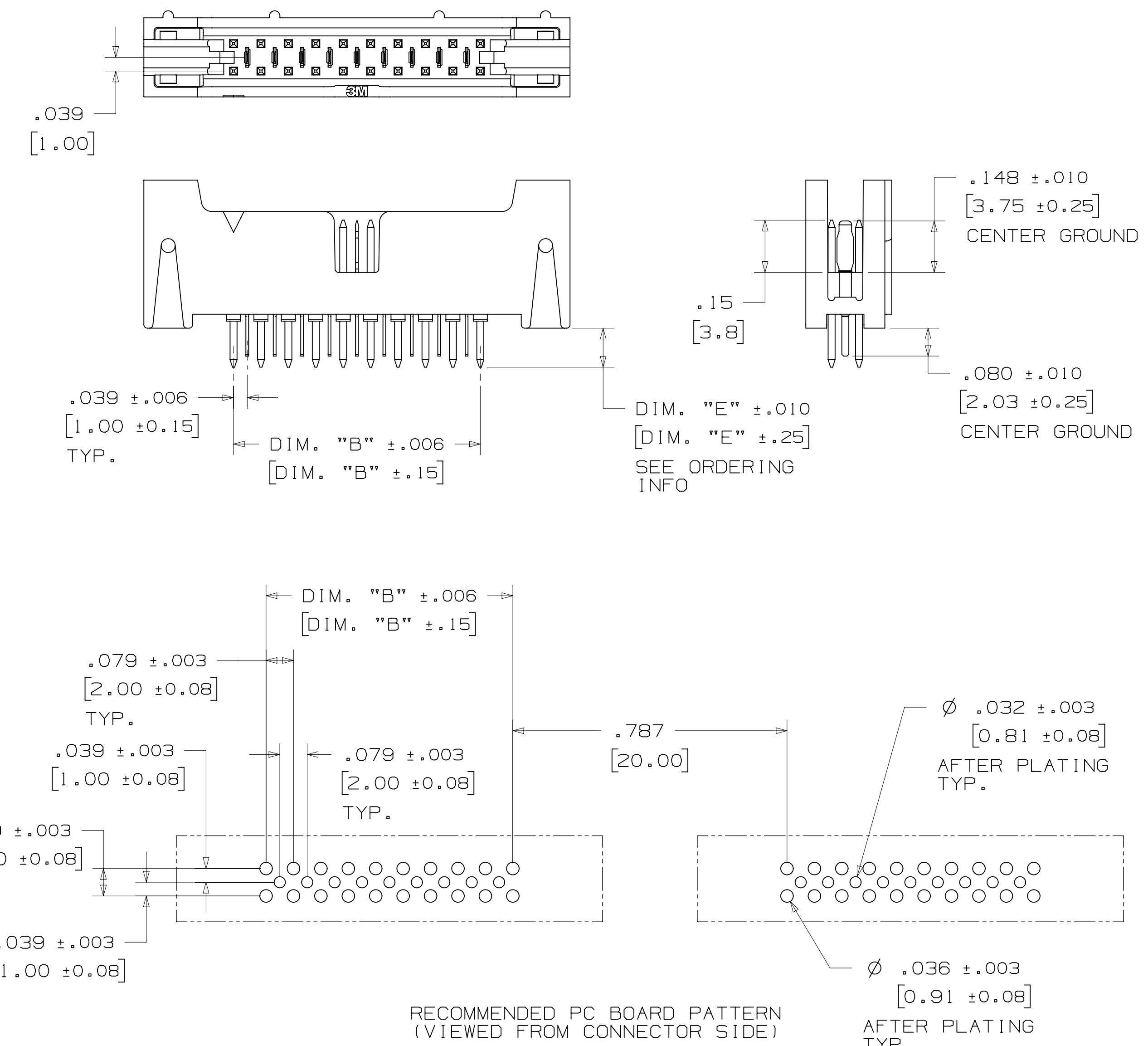
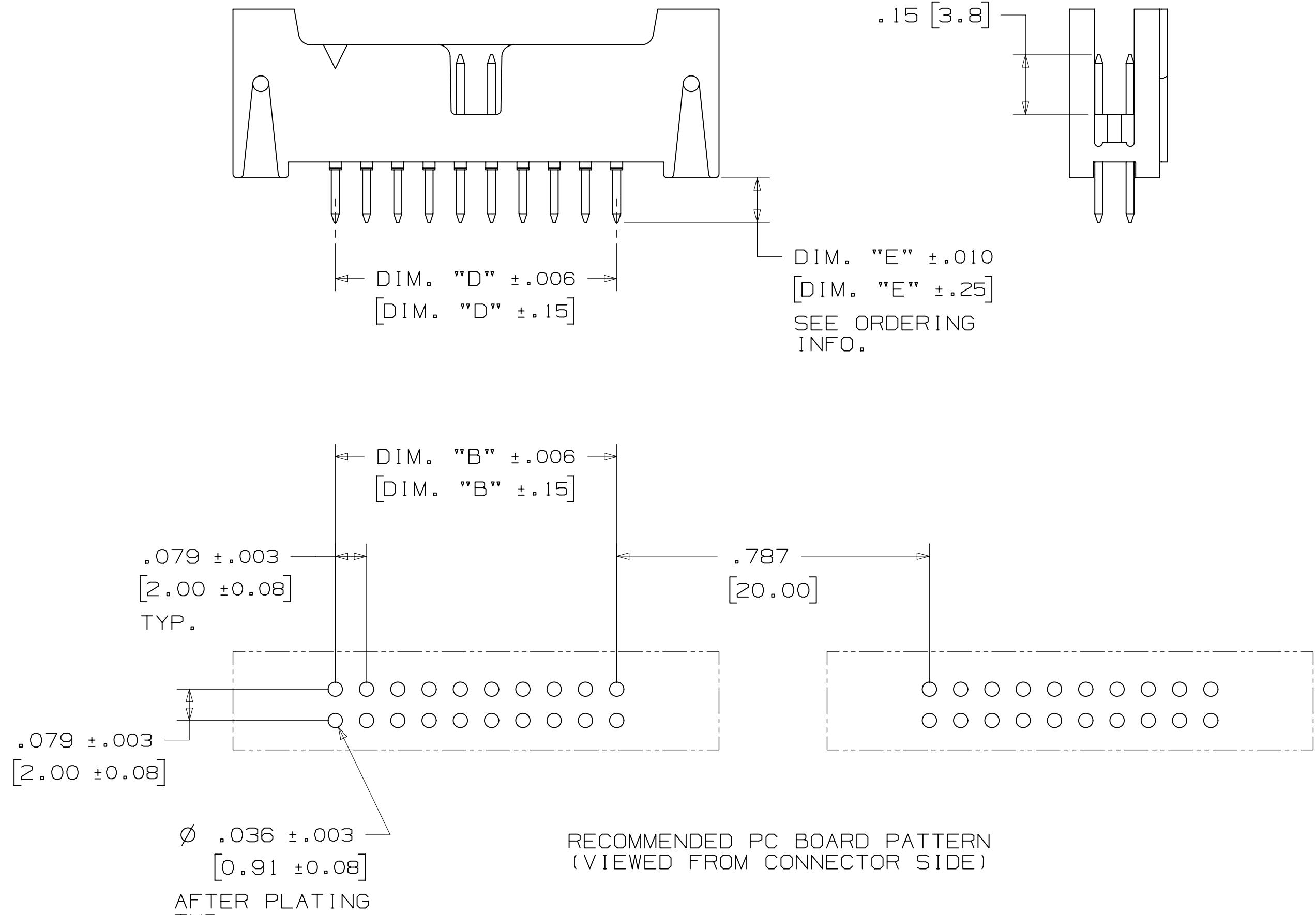
NOTES	
1.	MATERIAL: PLASTIC: GLASS FILLED POLYESTER (LCP) UL94V-0, BLACK CONTACT: COPPER ALLOY.
2.	PLATING: 50µ NICKEL UNDERPLATING WIPE AREA: SEE ORDERING INFO. SOLDER TAIL: 200µ MATTE TIN.
3.	IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENCE.
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: 1552, 870, 2M AND 2MM SCI CARRIER (93XX).
7.	SURFACE MOUNT VERSION: ORDER CODE APPLIES TO THE TAPE AND REEL WIDTH.

L	58601	AUG 11, 2016	JNC	RS
B-11-16 ADD SHT 4 REVISE TRADEMADE NOTE JUN 01, 2016 PRODUCTION RELEASE, APR 29, 2016				
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DATE: JAN 21, 2015 MFG DATE: JAN 21, 2015 APPROV: R. SCHERER DATE: JAN 21, 2015				
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TITLE: LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2199-7	L		
DET. LISTS	YES	NO	SHT 1 OF 4	
MODEL	1552			

8 7 6 5 4 3 2 1
 3M™ LATCH/EJECT HEADER, 1552 SERIES
 2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

STRAIGHT VERSION WITH INTERSTITIAL GROUNDS

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 EI & CI APPLY) FOR BOTH PLATINGS

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

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]

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		JAN 21, 2015	MFG	DATE
		CASTIGLIONE	DATE	
		CHKD	APPRV	DATE
		R. SCHERER	JAN 21, 2015	

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

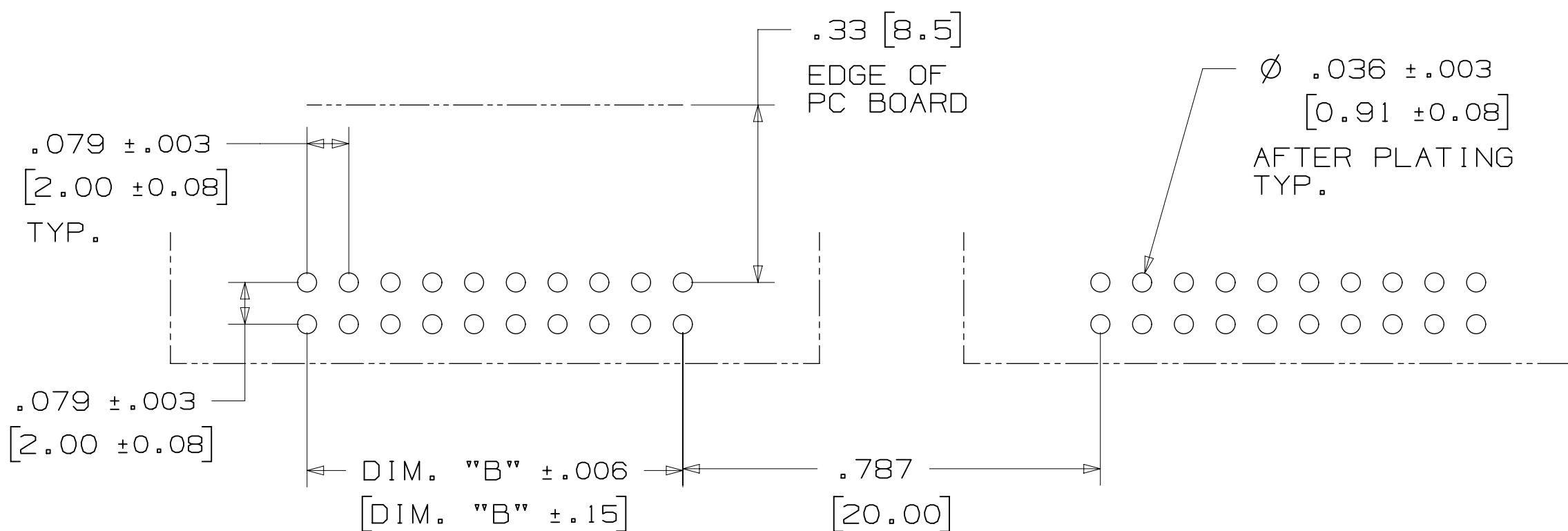
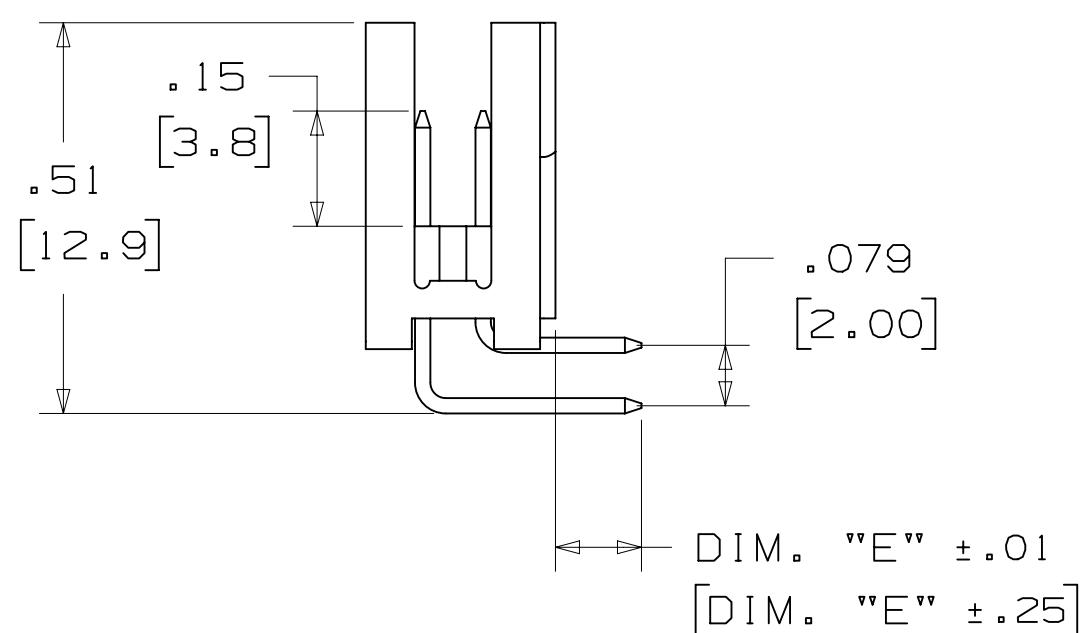
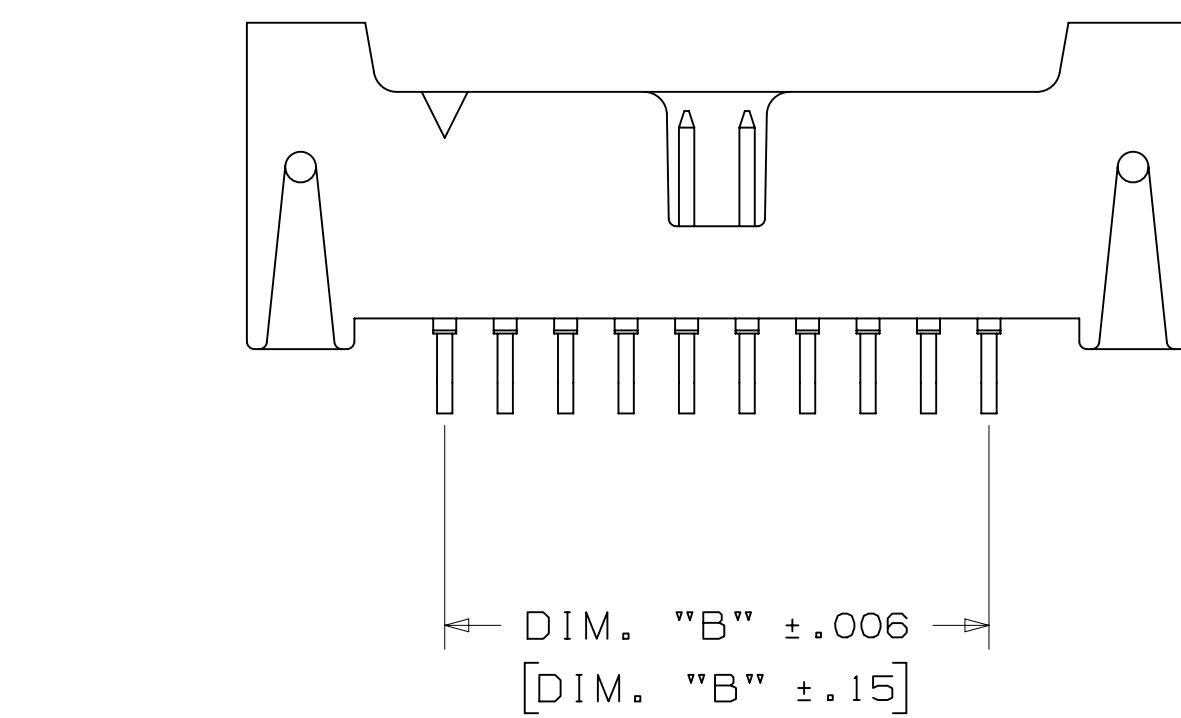
SIZE DRAWING NO.
 D 78-5100-2199-7 REV. L

DET. LISTS □ YES □ NO SHT 2 OF 4

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:

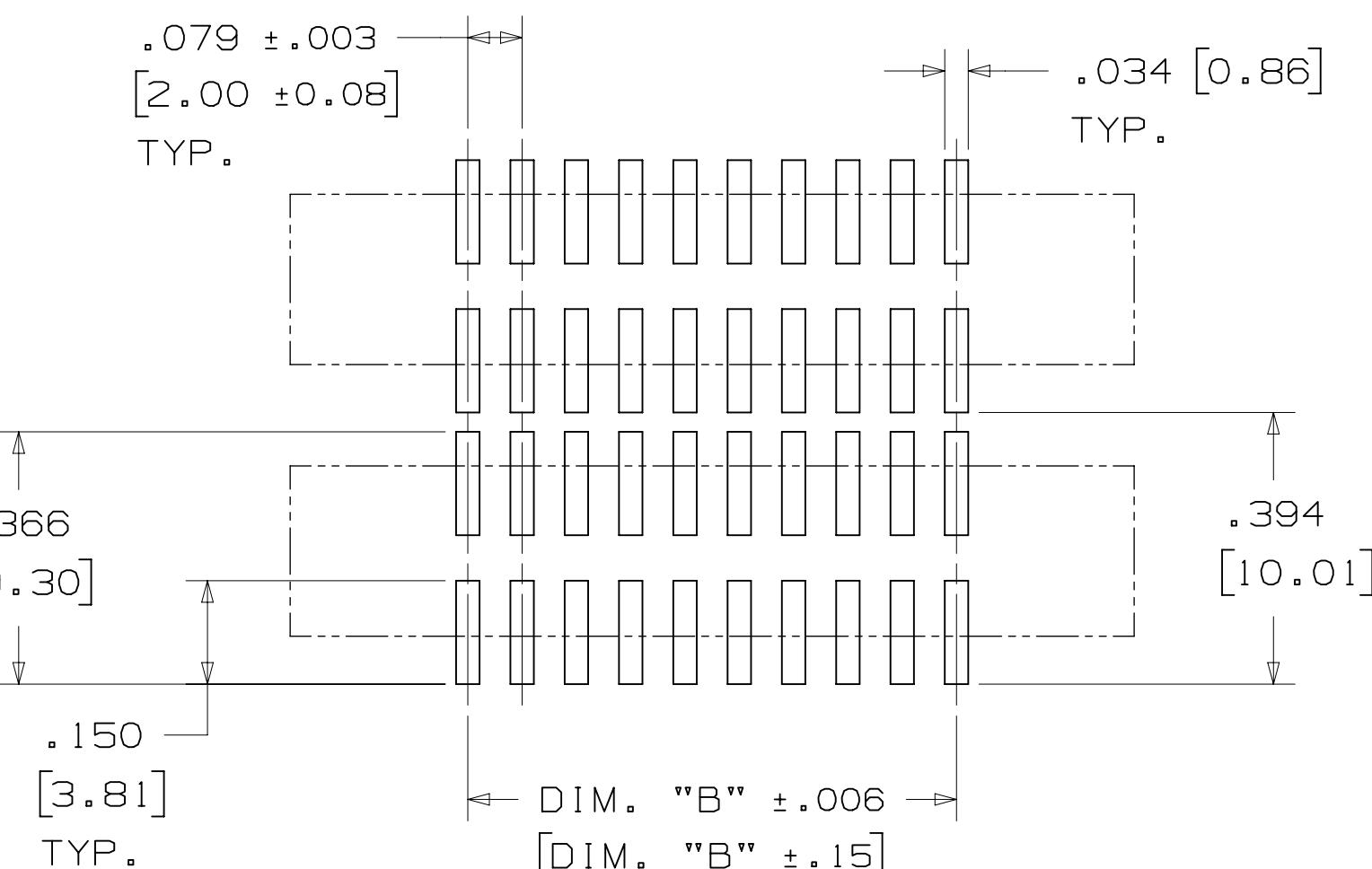
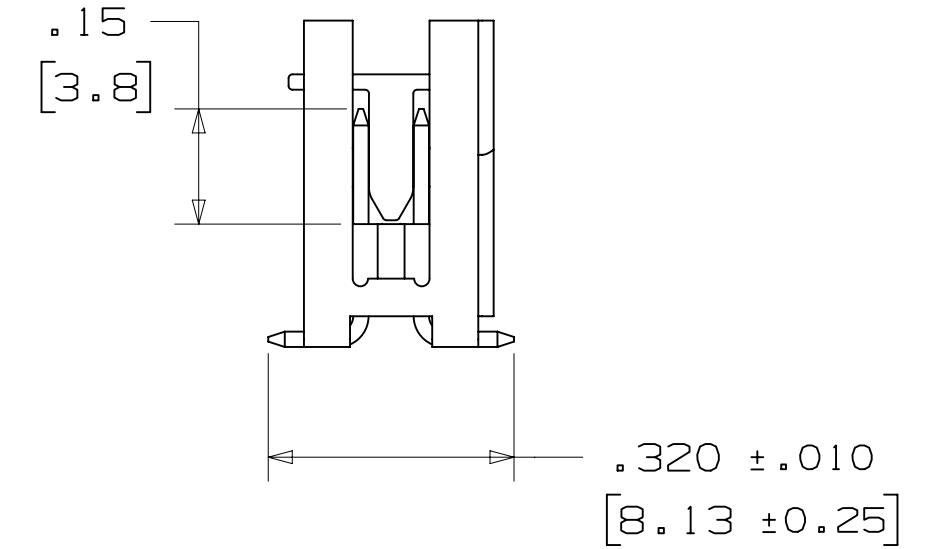
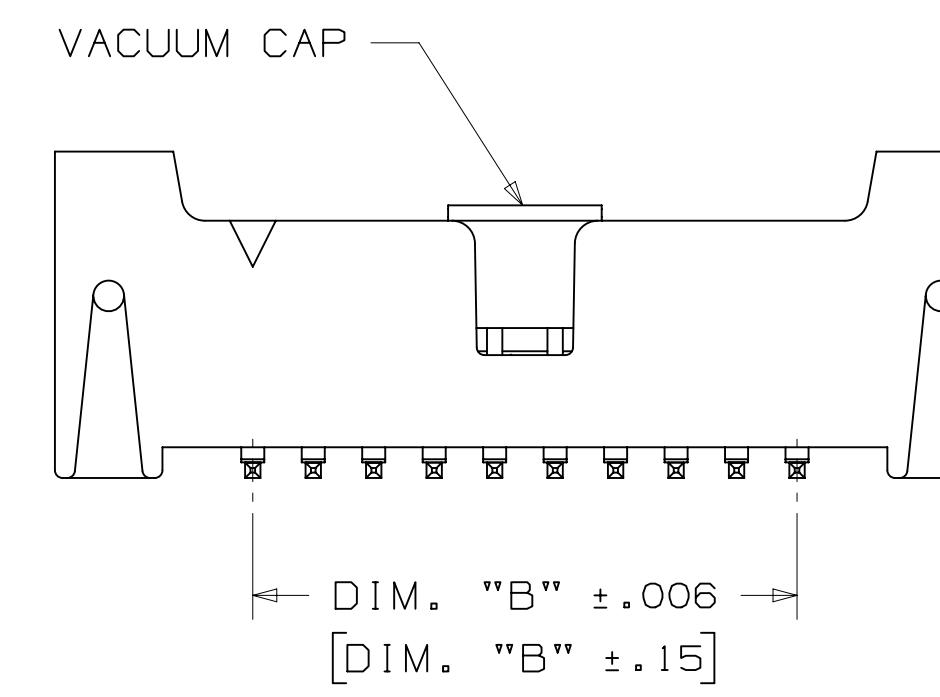
LATCHING OPTIONS:
2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD
(RIA EI & CI 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

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD
(RIA EI & CI 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 B-11-16 ADD SHT 4 REVISE TRADEMAKE NOTE JUN 01, 2016 PRODUCTION RELEASE, APR 29, 2016	JNC	RS

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CASTIGLIONE				
00	00	JAN 21, 2015	MFG	DATE
00	00	DATE	APPRV	DATE
R. SCHERER JAN 21, 2015				
3M Center St. Paul, MN 55144				
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TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2199-7	L		
DET. LISTS	YES	NO	SHT 3 OF 4	

DESIGN REFERENCE	NEXT ASSEMBLY		
ACCESS CODES	CASTIGLIONE	JAN 21, 2015	MFG
DIVISION	EMSD	DATE	DATE
DO NOT SCALE DRAWING	SCALE 4	TOLERANCES EXCEPT AS NOTED	
	1		
		INCHES	
		.0 .00 ±.01	
		.000 ±.008	
		.0000 ±	
THIRD ANGLE PROJECTION			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS	
		0 .0 ±.3	
		.00 .00 ±.20	
MAX SURFACE ROUGHNESS LTD SURFACES		.000 ±	
MARKED ONLY		ANGLES	
CAGE NUMBER	SIZE	DRAWING NO.	REV.
D	78-5100-2199-7	L	
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

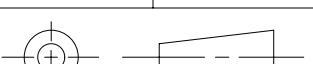
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		L	58601	AUG 11, 2016	JNC	RS			
		8-11-16 ADD SHT 4							
		REVISE TRADEMAKE NOTE							
		JUN 01, 2016							
		PRODUCTION RELEASE, APR 29, 2016							
DESIGN REFERENCE		NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD	
ACCESS CODES			DRFT	CASTIGLIONE	DATE	JAN 21, 2015	MFG	DATE	
			CHKD		DATE		APPVL	R. SCHERER	
							DATE	JAN 21, 2015	
DIVISION		DIVISION CODE EMSD	3M		© 3M COPYRIGHT 2017 3M Center St. Paul, MN 55144 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		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
 THIRD ANGLE PROJECTION			.0 \pm .00 \pm .01 .000 \pm .008 .0000 \pm						
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS	0 \pm .0 \pm .3 .00 \pm .20 .000 \pm		CAGE NUMBER	SIZE	DRAWING NO.		
MAX SURFACE ROUGHNESS					D		78-5100-2199-7		REV.
<input type="checkbox"/> ALL SURFACES <input type="checkbox"/> MARKED ONLY		ANGLES	1552		DET. LISTS		YES	<input checked="" type="checkbox"/> NO	SHT 4 OF 4