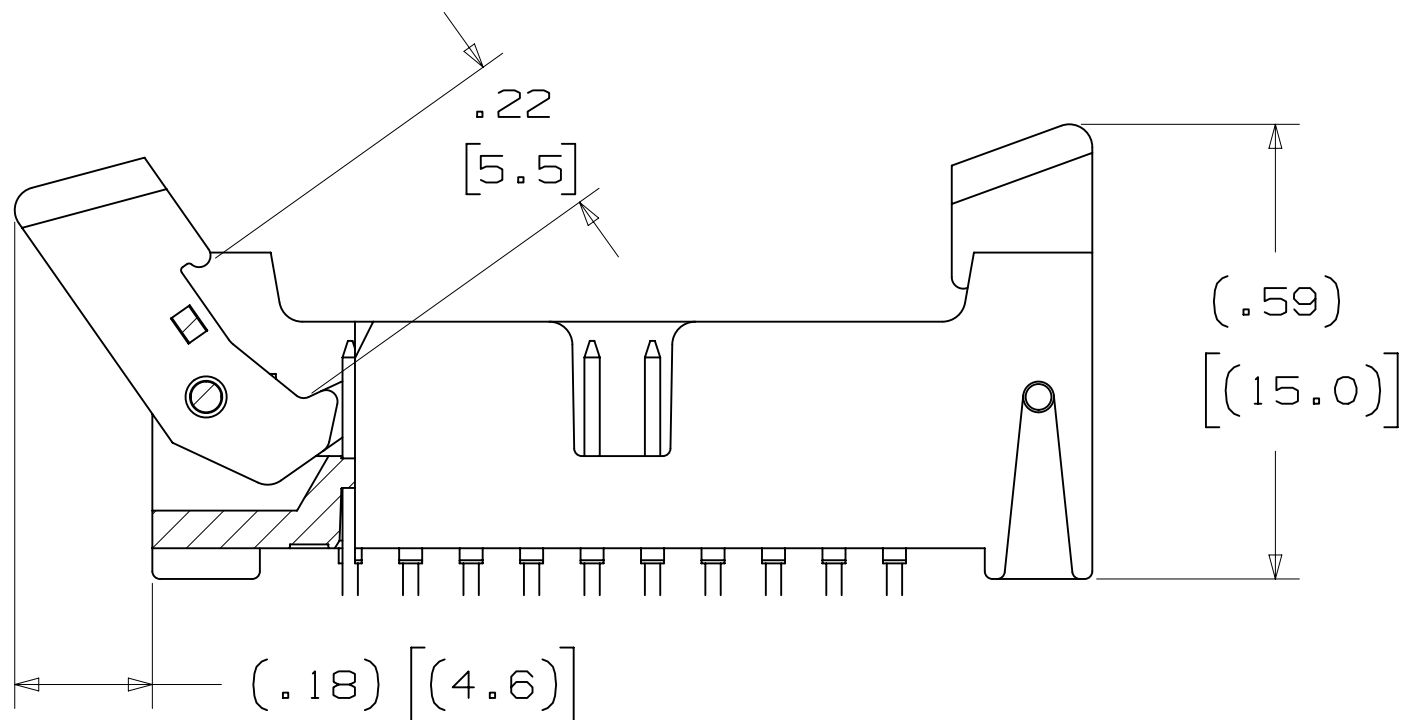
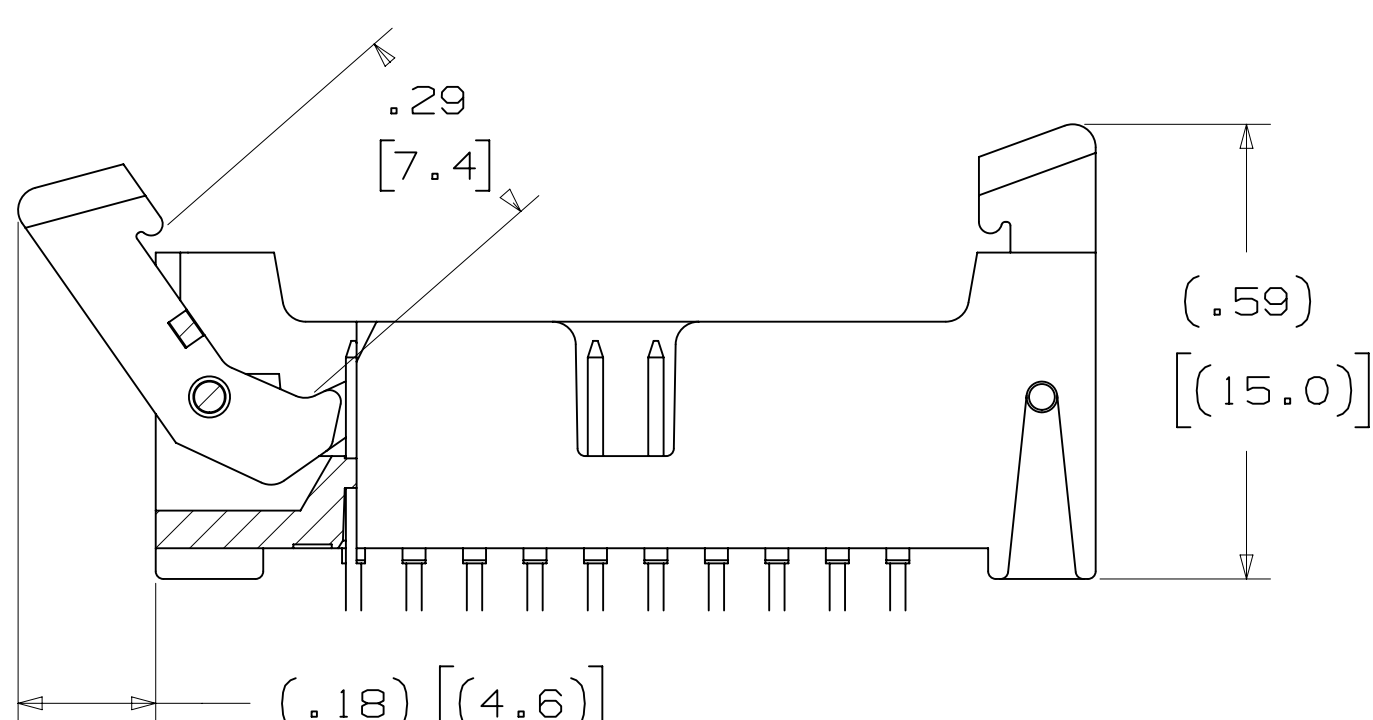


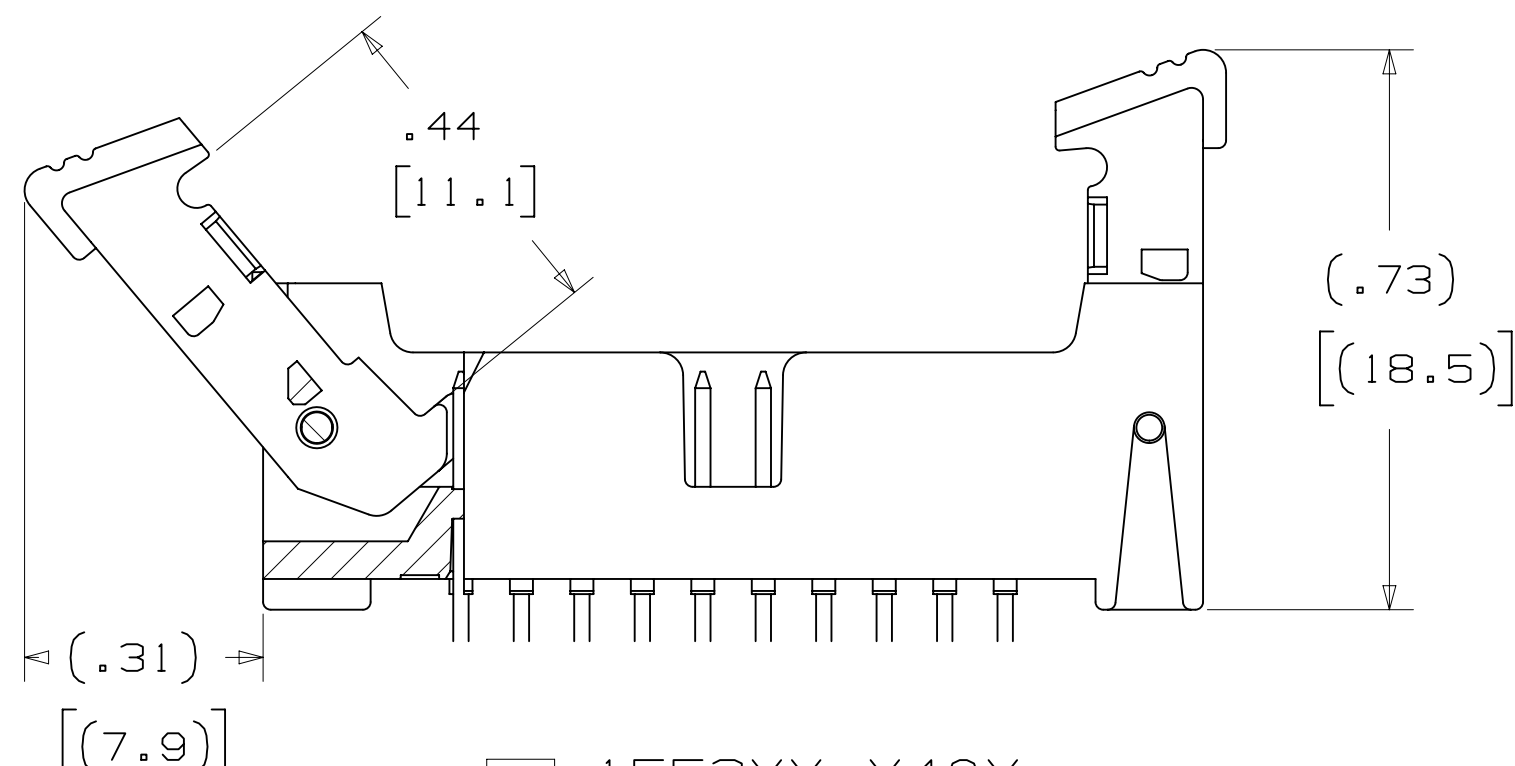
3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



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.

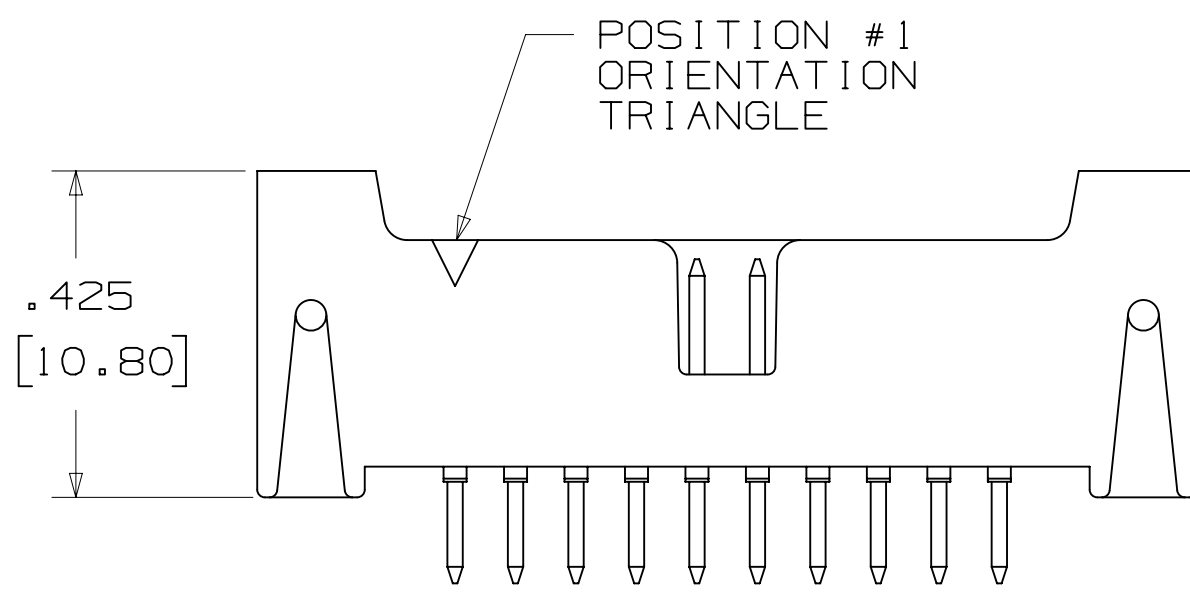
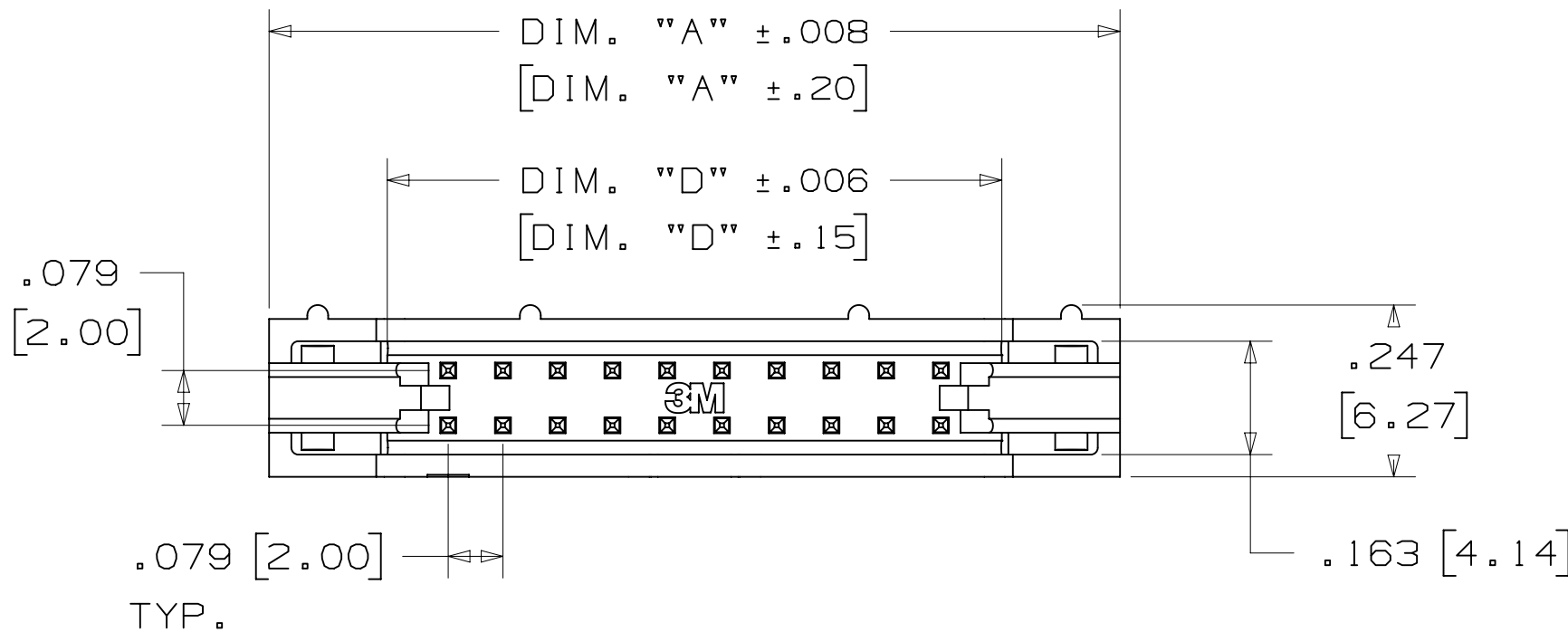
INSULATION RESISTANCE: > 1X10⁹ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

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]

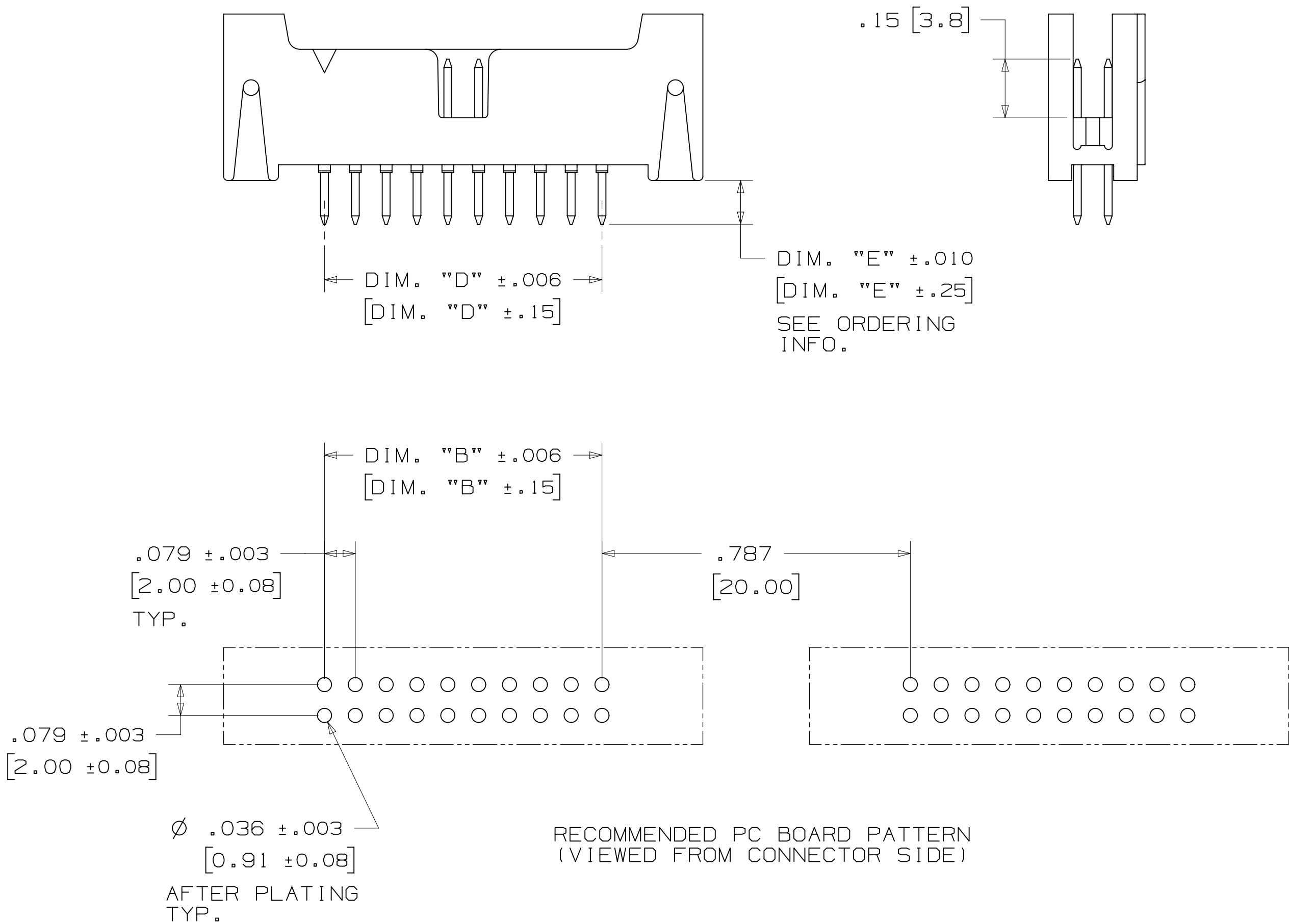
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XXXXX		1		8-11-16 ADD SHT 4		
XXXXX		2		REVISE TRADEMAKE NOTE		
XXXXX		3		JUN 01, 2016		
XXXXX		4		PRODUCTION RELEASE,		
XXXXX		5		APR 29, 2016		
DIVISION	DIVISION CODE	DATE	DATE	DATE	DATE	DATE
XXXXX	EMSD	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	INCHES .00 ± .01 .000 ± .008 .0000 ±				
MAX SURFACE ROUGHNESS	DEF SURFACES	MILLIMETERS 0 ± .3 .00 ± .20 .000 ±				
MARKED ONLY	ANGLES					
3M	3M Center St. Paul, MN 55144	© 3M COPYRIGHT 2017				
TITLE	LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT					
CAGE NUMBER	SIZE	DRAWING NO.	REV.			
D	78-5100-2199-7	L				
MODEL	1552	DET	LISTS	YES	NO	SHT 1 OF 4

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

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

STRAIGHT VERSION



ORDERING INFORMATION
1552XX-6X0X-XX

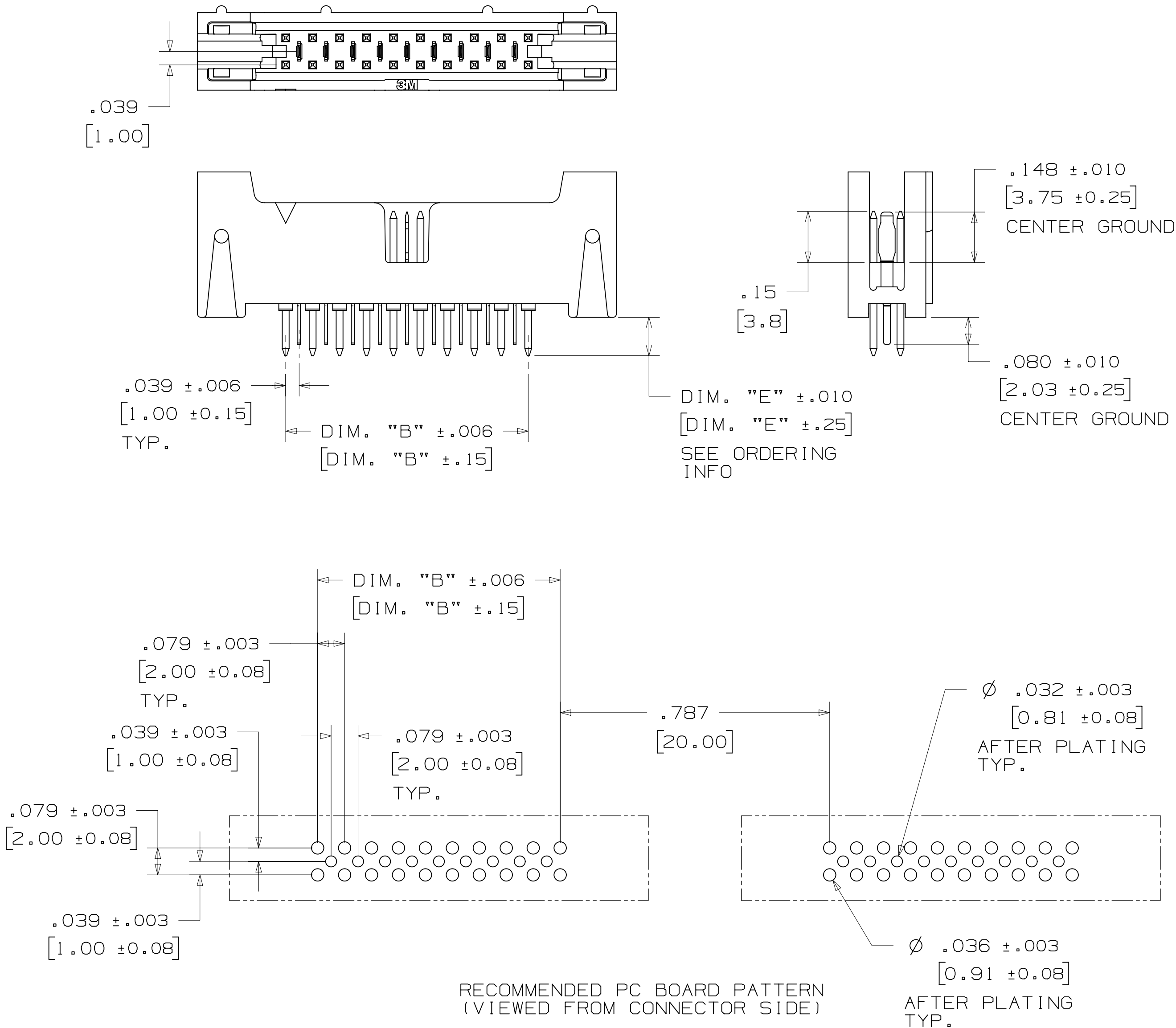
CONTACT QUANTITY: _____

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



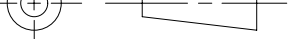
ORDERING INFORMATION
G1552XX-6X0X-XX

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

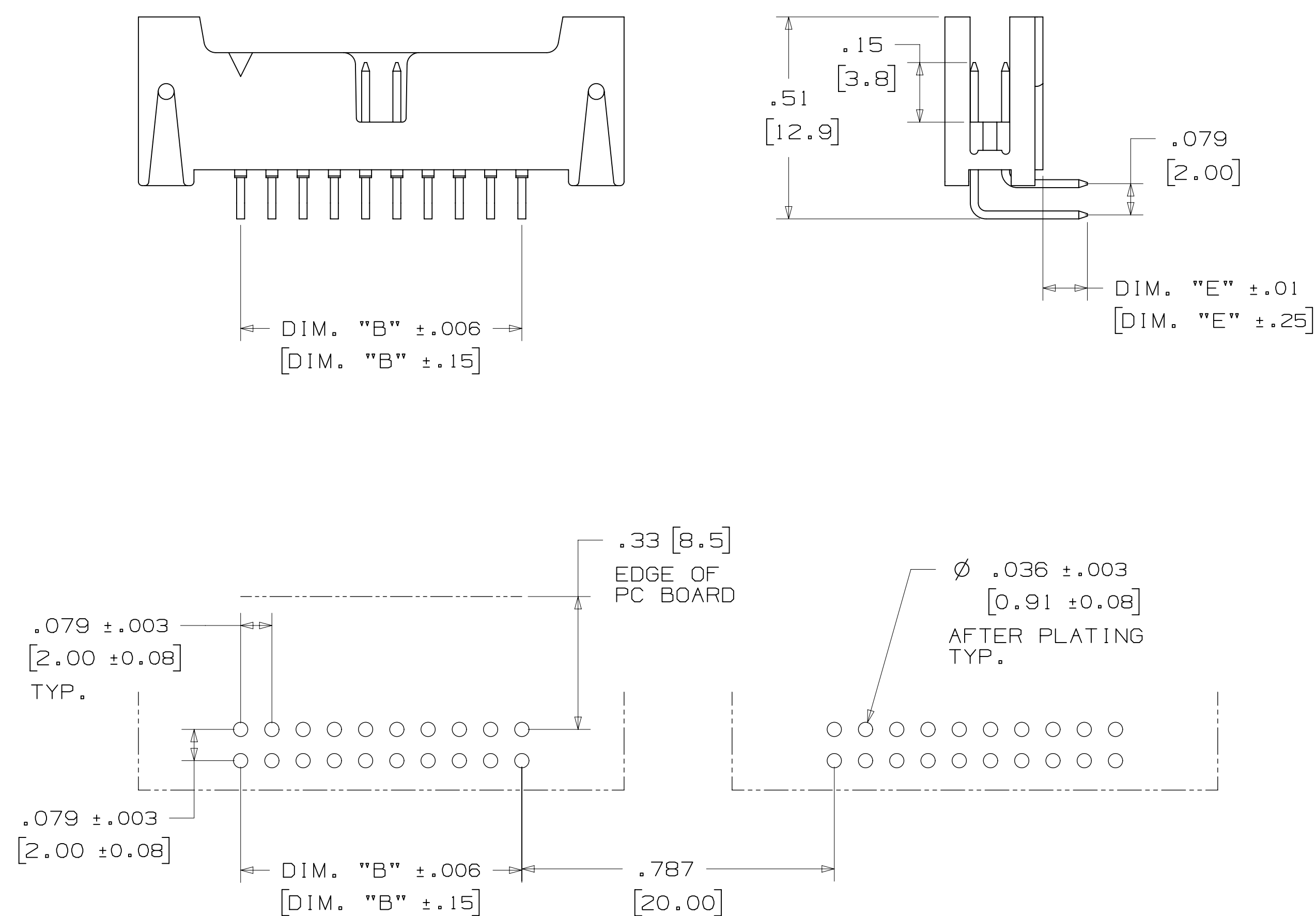
SOLDER TAIL LENGTH: DIMENSION "E"
2 = .112 [2.84]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES				DRP	CASTIGLIONE	DATE	MFG	DATE	
				CHKD		DATE	APPR	DATE	
							R. SCHERER	JAN 21, 2015	
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2017					
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		1							
		TOLERANCES EXCEPT AS NOTED							
		INCHES							
THIRD ANGLE PROJECTION		.00 ± .01		LATCH/EJECT HEAD, 2MM, STRAIGHT, RIGHT ANGLE & SMT					
		.000 ± .008							
		.0000 ±							
		MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2009		0 ± .3							
		.00 ± .20							
MAX SURFACE ROUGHNESS		.000 ±							
		ANGLES							
				CAGE NUMBER		SIZE	DRAWING NO.	REV.	
				D		78-5100-2199-7	L		
				MODEL		1552	DET	1	YES X 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



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 = $30\mu\text{IN}$ [$.76\mu\text{m}$] GOLD
RA = $10\mu\text{IN}$ [$.25\mu\text{m}$] GOLD
(RIA E1 & C1 APPLY) FOR
BOTH PLATINGS

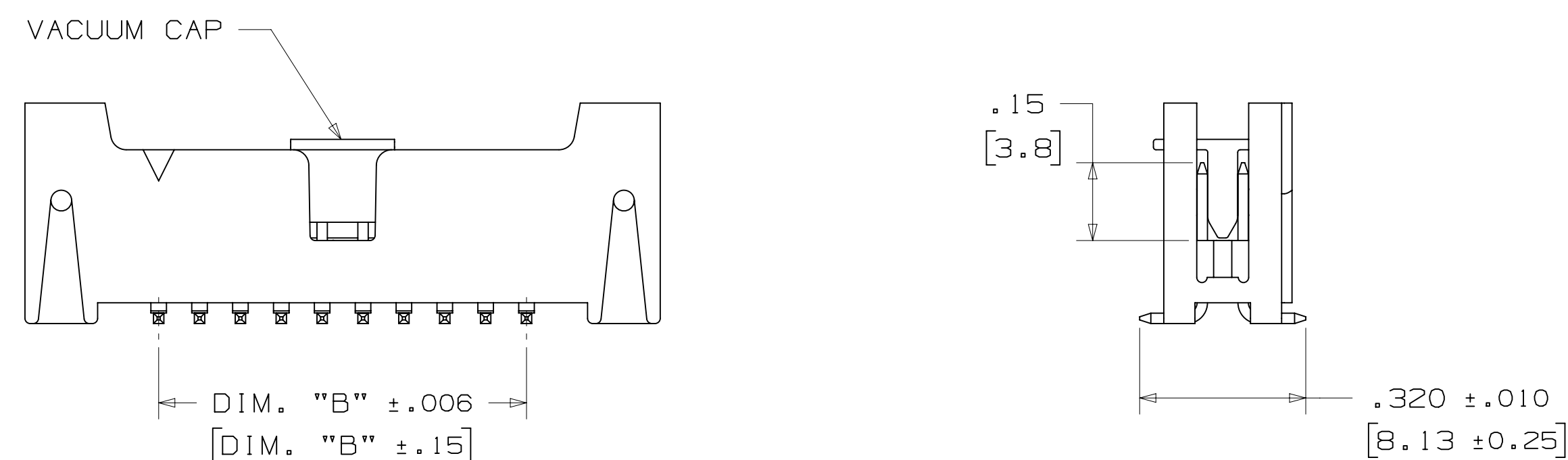
SOLDER TAIL LENGTH:

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.



ORDERING INFORMATION

1552XX-2X00-XX-XX

CONTACT QUANTITY: —

LATCHING OPTIONS:

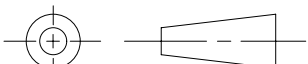
2 = LATCH, MOLDED-ON SOCKET WITH
LATCHING EARS, SERIES: 870, 2MM
3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
4 = LATCH, 2MM SCI CARRIER ONLY,
SERIES 93XX

PACKAGING:

PACKAGING:
BLANK = TRAYS
WX = TAPE & REEL
(SEE TABLE 1 ORDER CODE)

PLATING OPTIONS:-

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				PART CASTIGLIONE		DATE JAN 21, 2015	MFG	DATE
				CHKD		DATE	APPRV. R. SCHERER	DATE JAN 21, 2015
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SCALE 4 1		TOLERANCES EXCEPT AS NOTED		3M TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
		INCHES						
THIRD ANGLE PROJECTION		.00 ± .00 ± .01 .000 ± .008 .0000 ±						
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER				
MAX. SURFACE ROUGHNESS ✓ SURFACES ☒ MARKED ONLY		0 ± .00 ± .3 .00 ± .20 .000 ±		SIZE D				
		ANGLE		DRAWING NO.				
				278-5100-2199-7				
				REV.				
				DET. ☒ 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				DRG	CASTIGLIONE	DATE	JUN 21, 2015	MFG	DATE
				CHKD		DATE		APPR'L	DATE
								R. SCHERER	JUN 21, 2015
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SCALE 1/1									
		INCHES		TITLE					
THIRD ANGLE PROJECTION		.00 ± .01 .000 ± .00B .0000 ±		LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT					
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER		SIZE		REV.	
MAX SURFACE ROUGHNESS		0 ± .00 ± .3 .000 ± .20		D		78-5100-2199-7		L	
MIN SURFACE FINISH		0 ± .00 ± .20 .000 ±		MODEL		DET. LISTS		YES ☒ NO	
✓ ☐ MARKED ONLY		ANGLES		1552				SHT 4 OF 4	

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