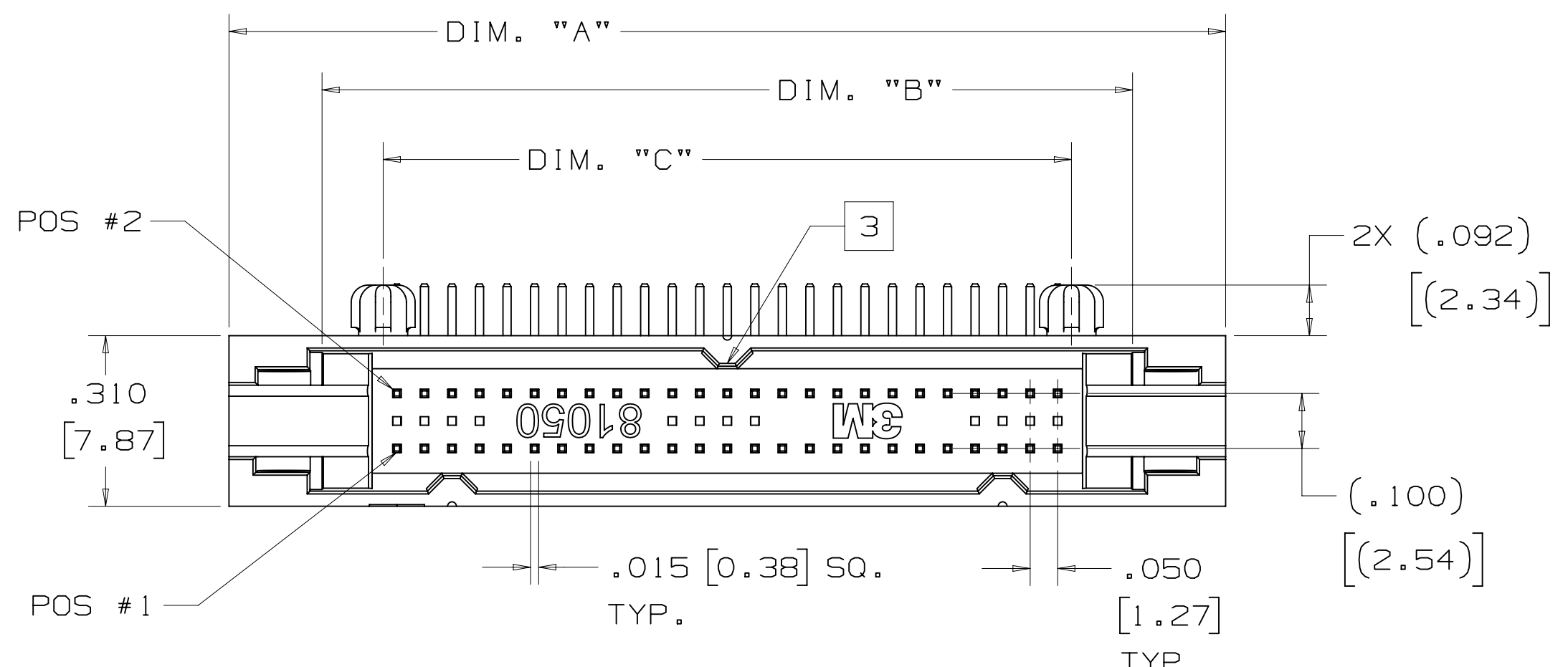
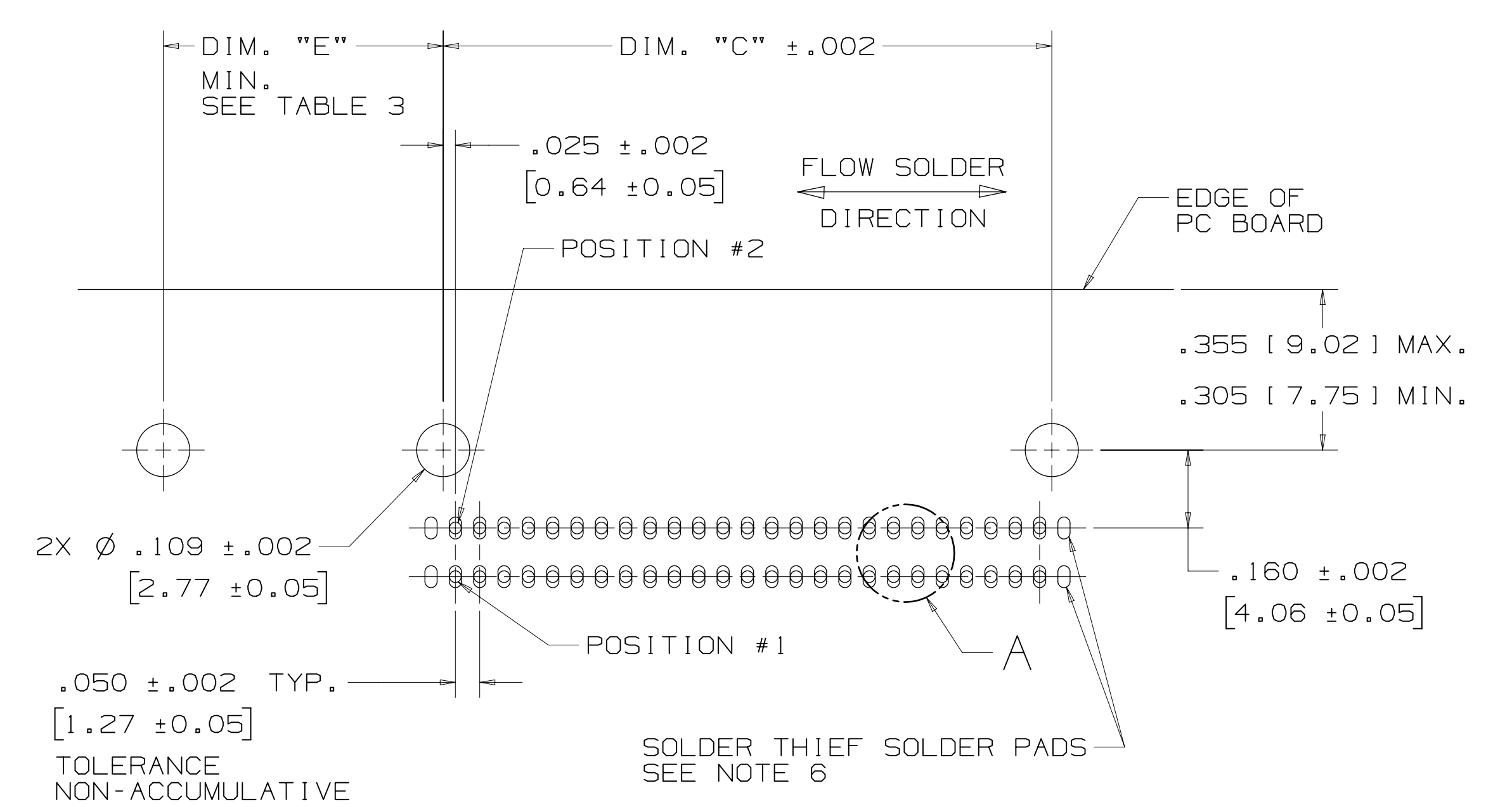
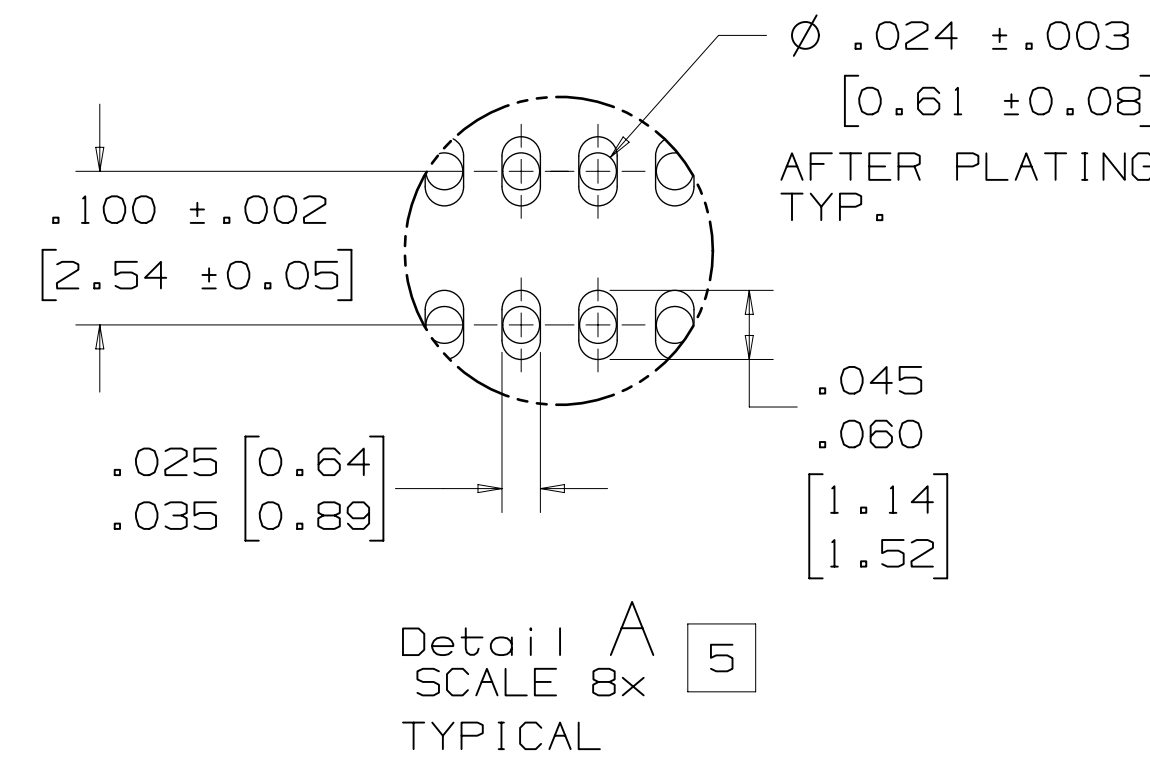


3M™ 4-WALL, TRIPOLARIZED HEADER, 810 SERIES
 .050" X .100" LATCH/EJECTOR, PTH AND SMT STRAIGHT, PTH RIGHT ANGLE

CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D" SHORT	DIM. "D" LONG
020	1.060 [26.92]	.722 [18.34]	.500 [12.70]	1.671 [42.44]	1.842 [46.79]
026	1.210 [30.73]	.872 [22.15]	.650 [16.51]	1.821 [46.25]	1.992 [50.60]
036	1.460 [37.80]	1.122 [28.50]	.900 [22.86]	2.071 [52.60]	2.242 [56.95]
040	1.560 [39.62]	1.222 [31.04]	1.000 [25.40]	2.171 [55.14]	2.342 [59.49]
050	1.810 [45.97]	1.472 [37.39]	1.250 [31.75]	2.421 [61.49]	2.592 [65.84]
060	2.060 [52.32]	1.722 [43.74]	1.500 [38.10]	2.671 [67.84]	2.842 [72.19]
068	2.260 [57.40]	1.922 [48.82]	1.700 [43.18]	2.871 [72.92]	3.042 [77.27]
080	2.560 [65.02]	2.222 [56.44]	2.000 [50.80]	3.171 [80.54]	3.342 [84.89]
100	3.060 [77.72]	2.722 [69.14]	2.500 [63.50]	3.671 [93.24]	3.842 [97.59]

PCB THICKNESS	DIM. "F"
.062 [1.57]	.090 [2.29]
.094 [2.39]	.112 [2.84]
.125 [3.18]	.143 [3.63]

ADJACENT CONNECTOR	
EJECTOR LATCHES	DIM. "E"
NONE	.575 [14.61]
LONG	1.010 [25.65]
SHORT	.885 [22.48]



ORDERING INFORMATION

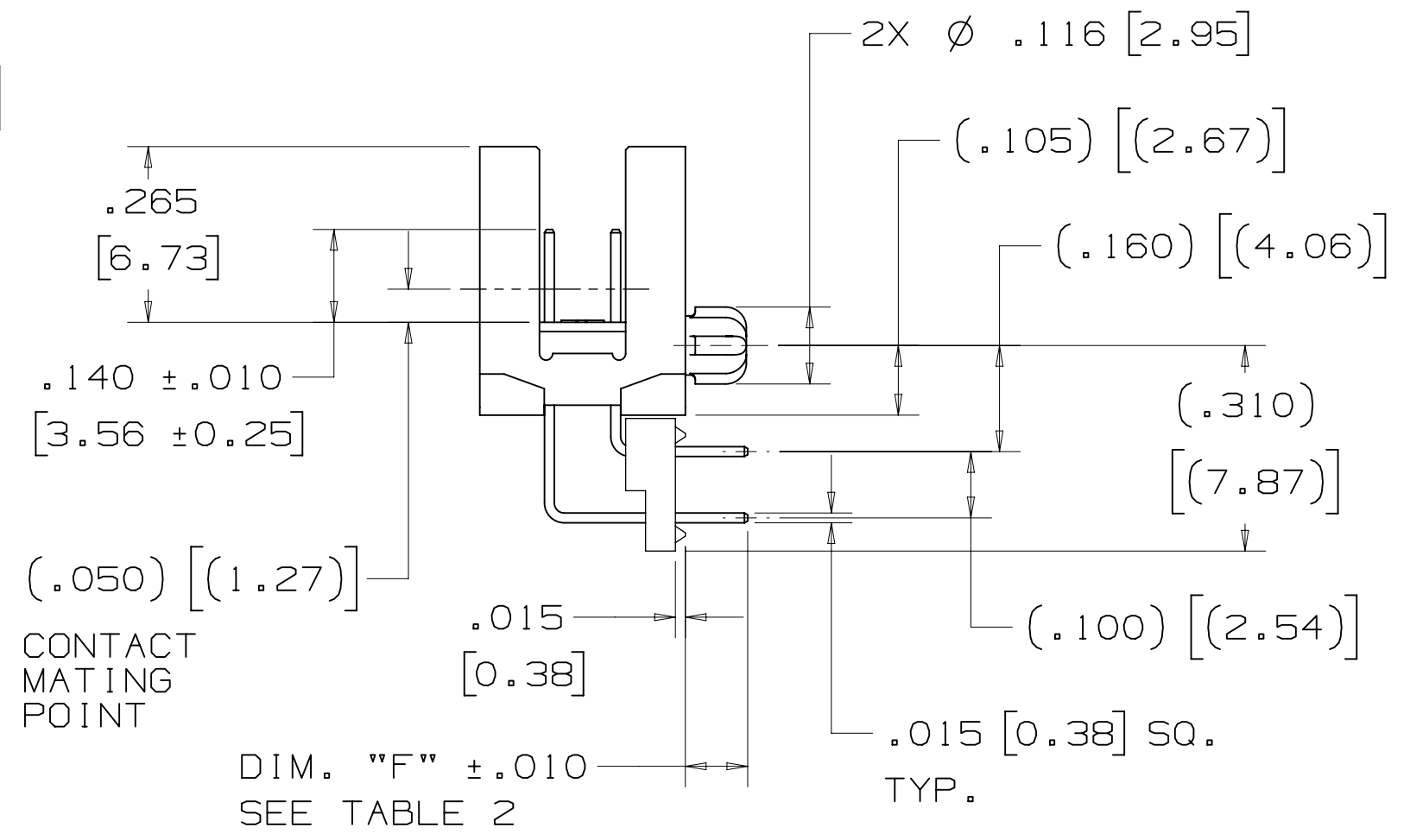
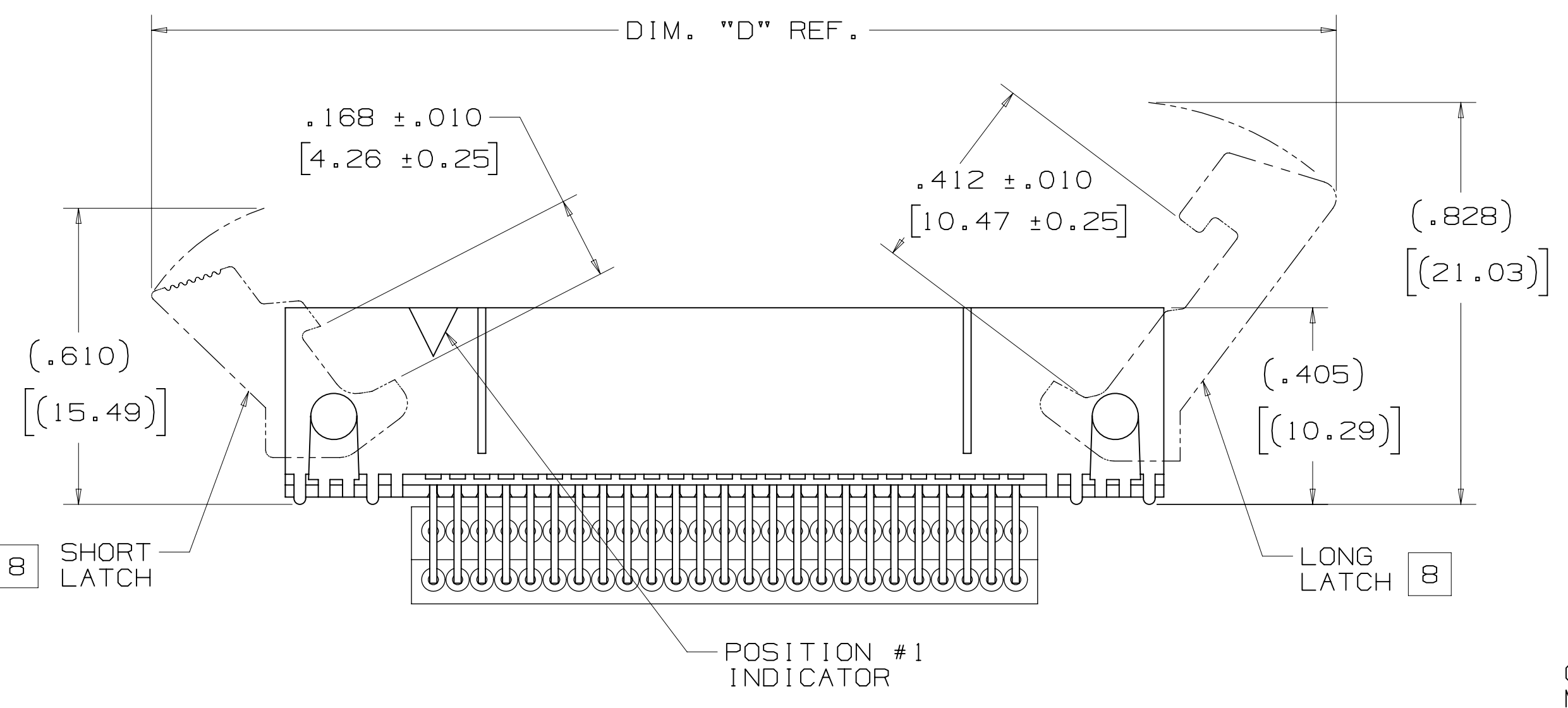
PTH RIGHT ANGLE HEADER
 81XXX-5X0X03-RB

CONTACT QTY: (SEE TABLE 1)
 CONTACT SOLDER TAIL:
 2 = FOR .062 [1.75] PC BOARD (STANDARD)
 3 = FOR .094 [2.39] PC BOARD (SPECIAL ORDER)
 4 = FOR .125 [3.18] PC BOARD (SPECIAL ORDER)

EJECTOR/LATCH SYSTEM:
 0 = NONE (SPECIAL ORDER)
 5 = WITH SHORT EJECTORS INSTALLED (SPECIAL ORDER)
 6 = WITH LONG EJECTORS INSTALLED (STANDARD)

EJECTOR LATCHES

(IF ORDERED SEPARATELY)
 LONG LATCHES: 3505-28
 SHORT LATCHES: 3505-29



DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JAN 13, 2022	JNC	SAN
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION		EMSD		INCHES: .00 ± .01, .000 ± .005, .0000 ± .0002		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS: 0 ± .00, .00 ± .000, .000 ± .000		MATERIAL: 3M Center St. Paul, MN 55144		
MAX SURFACE ROUGHNESS: 12.5 SURFACES MARKED ONLY		CAGE NUMBER: D78-5100-0253-4		TITLE: TRIPOLARIZED HEADER, 4-WALL, LATCH/EJECT, .050" X .100"		
		MODEL: 810		REV. L		

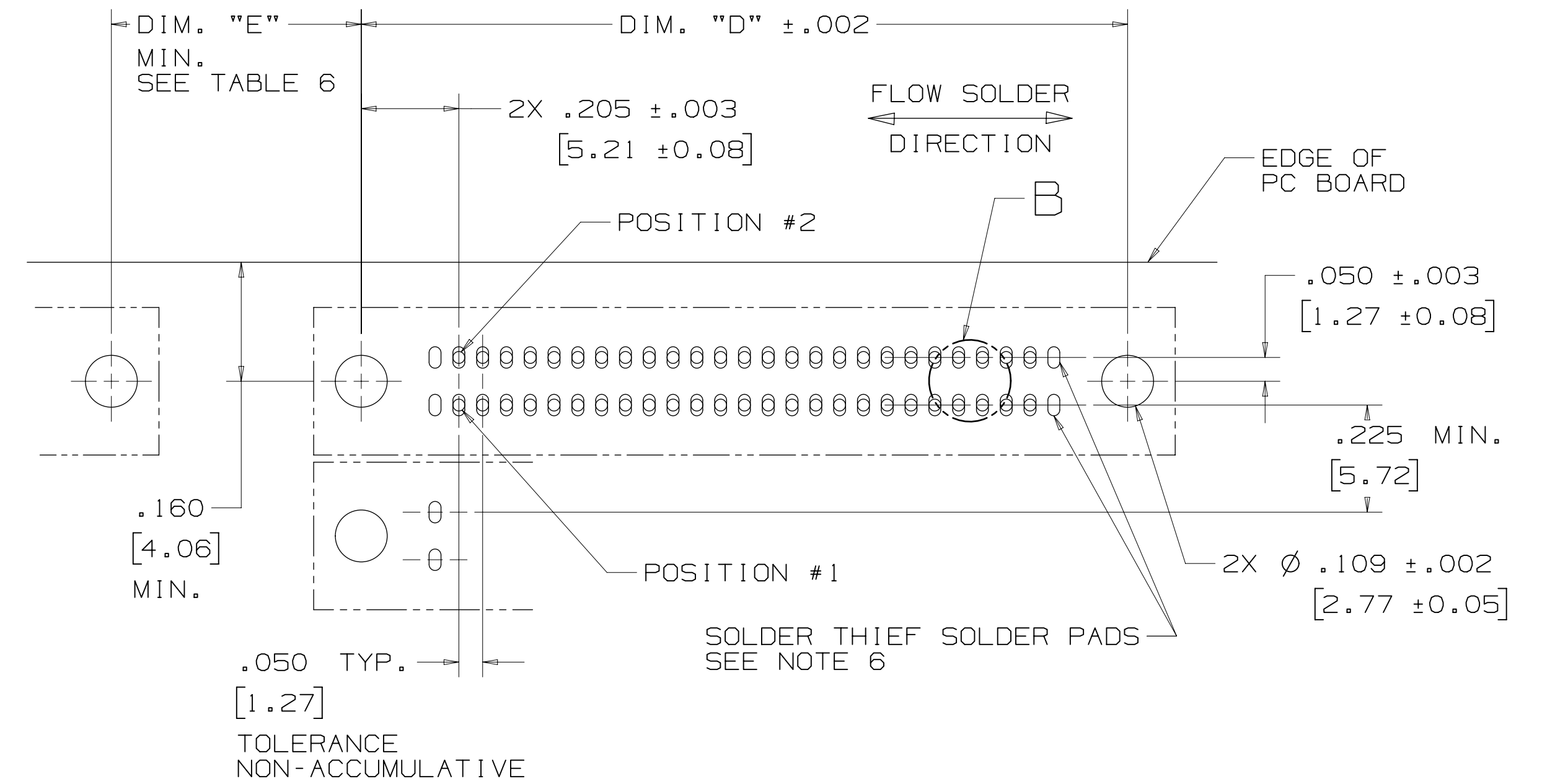
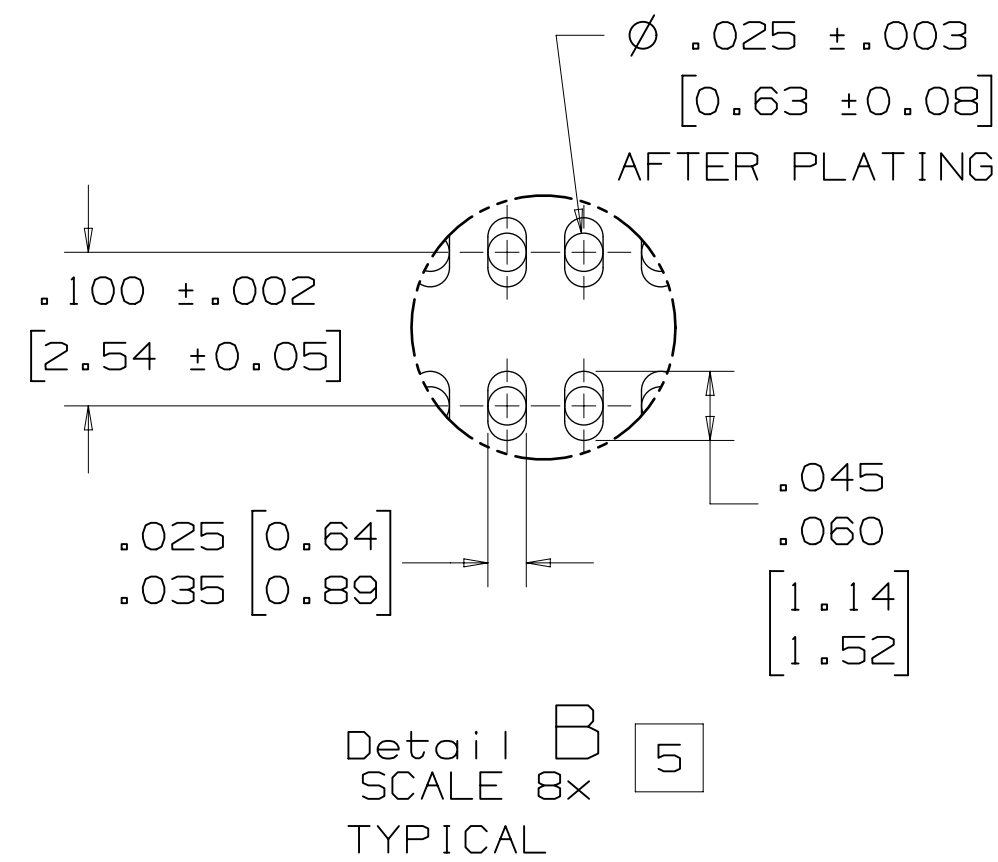
78-5100-0253-4
 1/25/2022 -- UTC
 1/25/2022

3M™ 4-WALL, TRIPOLARIZED HEADER, 810 SERIES
 .050" X .100" LATCH/EJECTOR, PTH AND SMT STRAIGHT, PTH RIGHT ANGLE

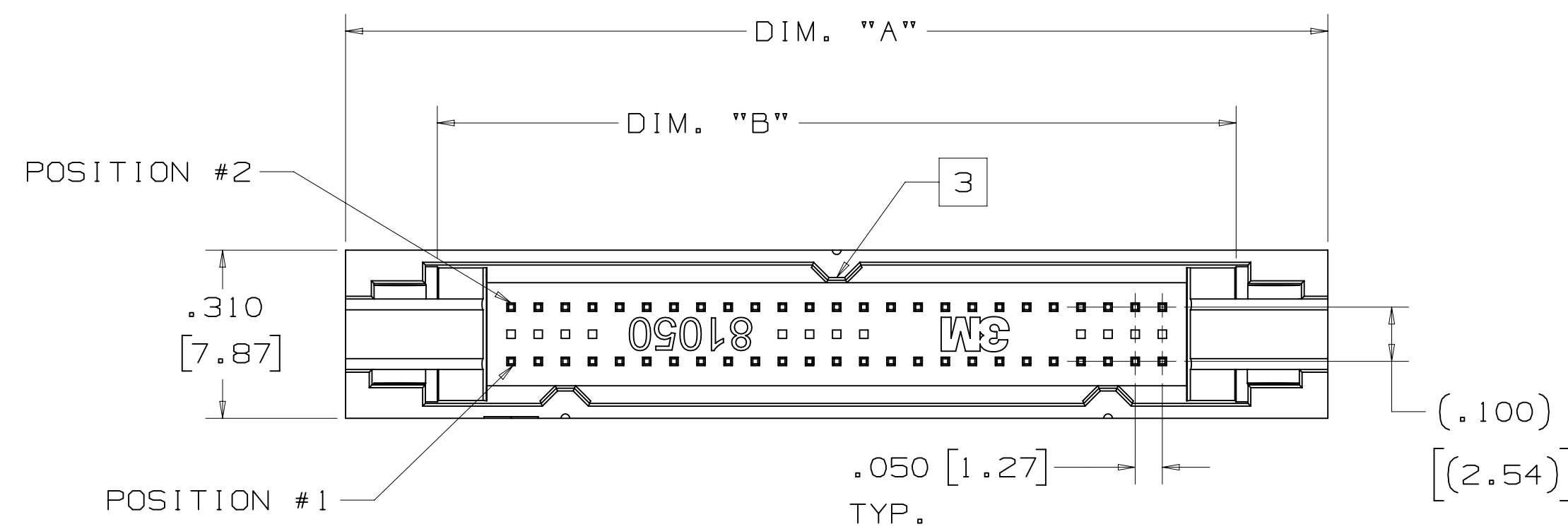
CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "C" SHORT	DIM. "C" LONG	DIM. "D"
020	1.060 [26.92]	.722 [18.34]	1.671 [42.44]	1.842 [46.79]	.860 [21.84]
026	1.210 [30.73]	.872 [22.15]	1.821 [46.25]	1.992 [50.60]	1.010 [25.65]
036	1.460 [37.80]	1.122 [28.50]	2.071 [52.60]	2.242 [56.95]	1.260 [32.00]
040	1.560 [39.62]	1.222 [31.04]	2.171 [55.14]	2.342 [59.49]	1.360 [34.54]
050	1.810 [45.97]	1.472 [37.39]	2.421 [61.49]	2.592 [65.84]	1.610 [40.89]
060	2.060 [52.32]	1.722 [43.74]	2.671 [67.84]	2.842 [72.19]	1.860 [47.24]
068	2.260 [57.40]	1.922 [48.82]	2.871 [72.92]	3.042 [77.27]	2.060 [52.32]
080	2.560 [65.02]	2.222 [56.44]	3.171 [80.54]	3.342 [84.89]	2.360 [59.94]
100	3.060 [77.72]	2.722 [69.14]	3.671 [93.24]	3.842 [97.59]	2.860 [72.64]

PCB THICKNESS	DIM. "F"
.062 [1.57]	.092 [2.34]
.094 [2.39]	.110 [2.79]

ADJACENT CONNECTOR	
EJECTOR LATCHES	DIM. "E"
NONE	.215 [5.46]
LONG	.650 [16.51]
SHORT	.525 [13.34]



RECOMMENDED MOUNTING HOLE PATTERN (7)
 PTH VERTICAL HEADER
 (SHOWN FOR MOUNTING SIDE OF PC BOARD)



ORDERING INFORMATION
 PTH STRAIGHT HEADER

81XXX-6XOXOX-RB

CONTACT QTY:
 (SEE TABLE 4)

BOARD MOUNTING OPTIONS:
 1 = NONE (SPECIAL ORDER)
 3 = PRESS FIT POSTS BOTH ENDS (STANDARD)

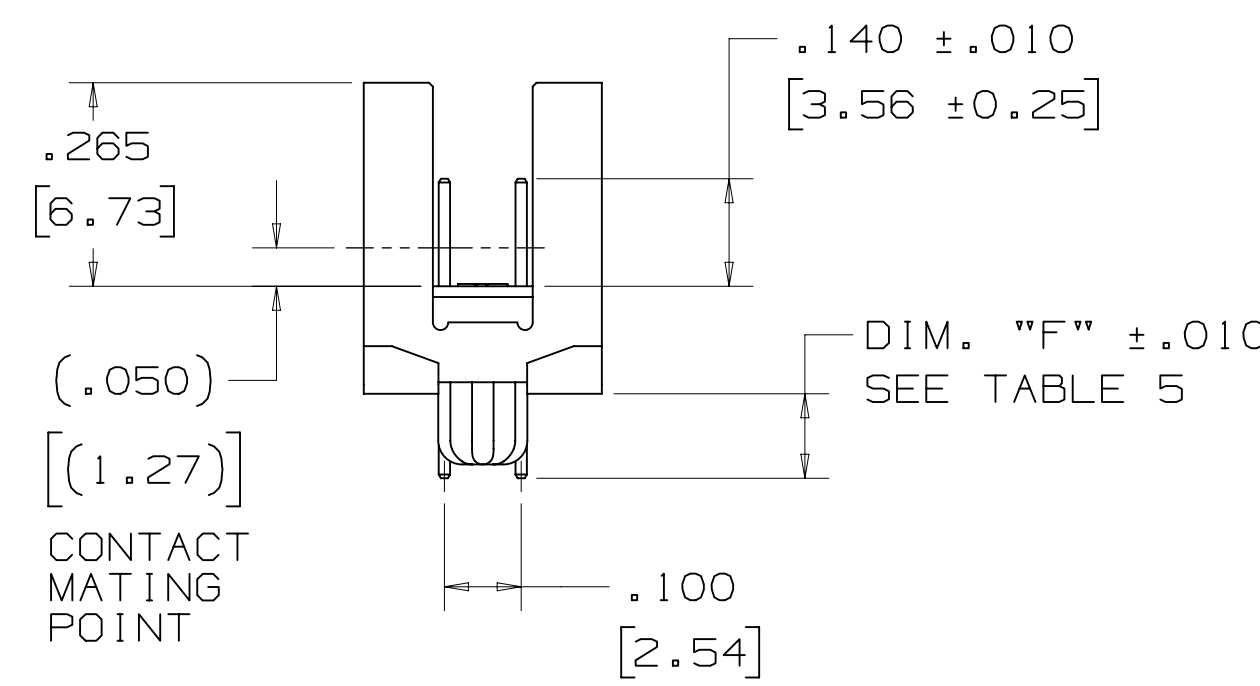
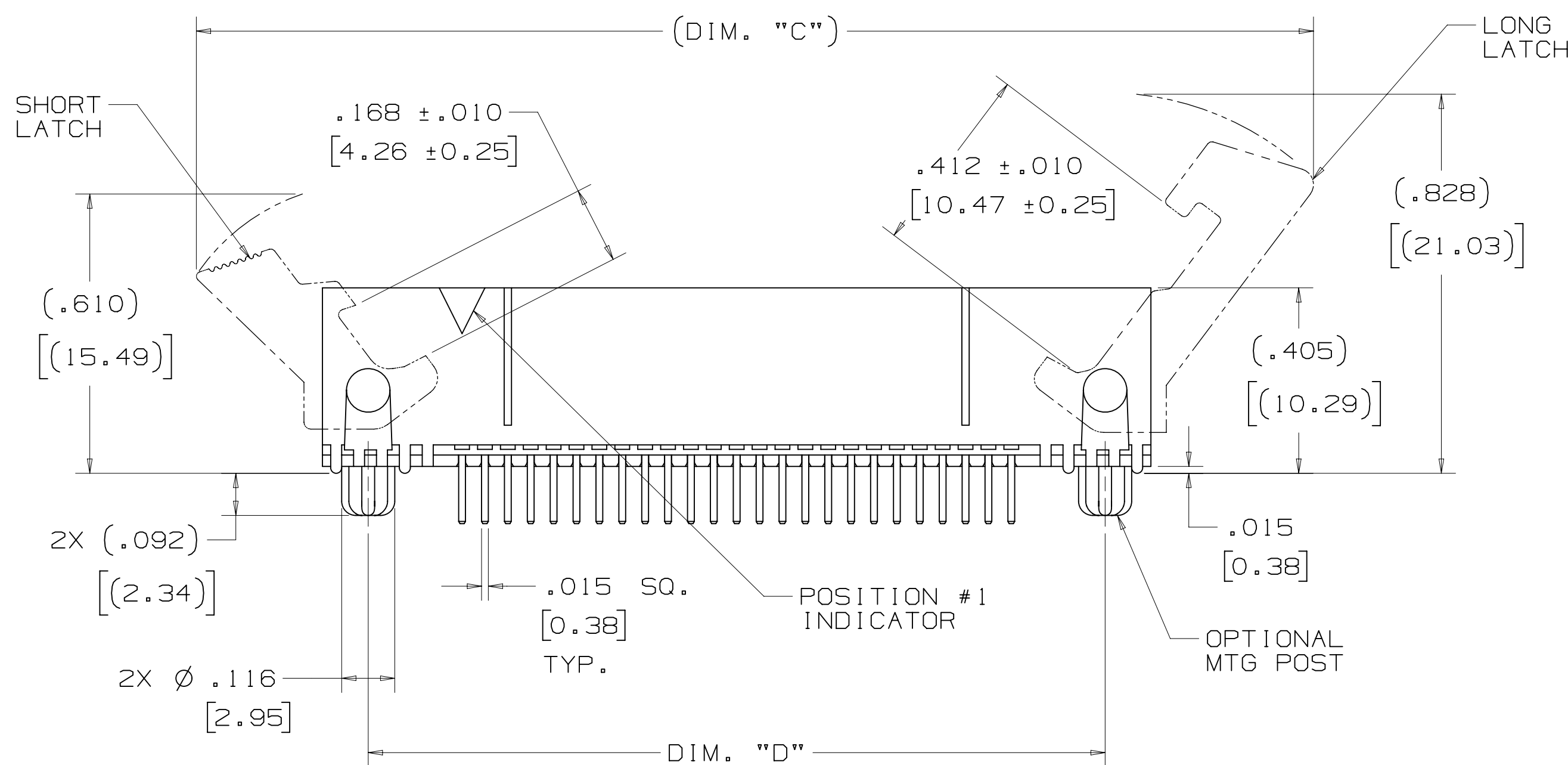
EJECTOR/LATCH SYSTEM:
 0 = NONE (SPECIAL ORDER)
 5 = WITH SHORT EJECTORS INSTALLED (SPECIAL ORDER)
 6 = WITH LONG EJECTORS INSTALLED (STANDARD)

CONTACT SOLDER TAIL:
 2 = FOR .062 [1.75] PC BOARD (STANDARD)
 3 = FOR .094 [2.39] PC BOARD (SPECIAL ORDER)
 4 = FOR .125 [3.18] PC BOARD (SPECIAL ORDER)

EJECTOR LATCHES

(IF ORDERED SEPARATELY)

LONG LATCHES: 3505-28
 SHORT LATCHES: 3505-29



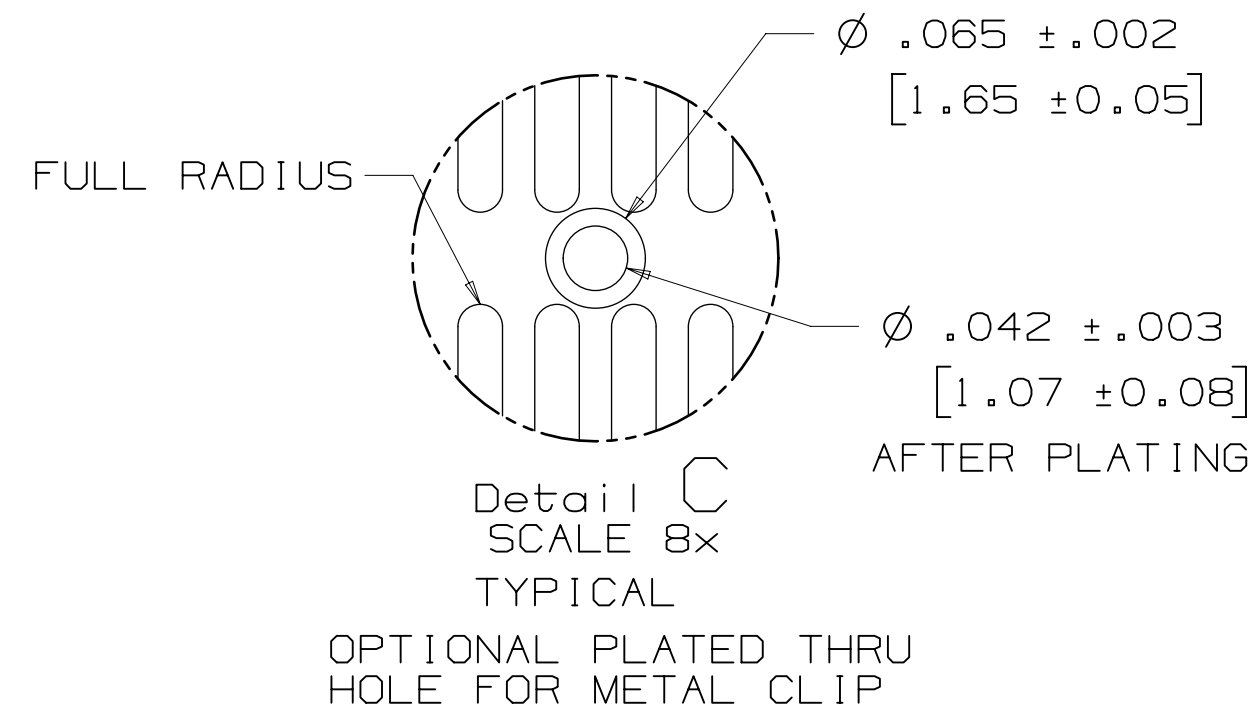
DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JAN 13, 2022	JNC	SAN
REVISED AND REDRAWN		DATE	MFG	DATE		
CASTIGLIONE		JAN 13, 2022				
DIVISION		DIVISION CODE	EMSD	DATE	APPR	DATE
					S. NEU	JAN 13, 2022
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED				
		INCHES: .00 ± .01, .000 ± .005, .0000 ± .0002	© 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.			
THIRD ANGLE PROJECTION		MILLIMETERS: 0 ± .00, .00 ± .00, .000 ± .000	TITLE: TRIPOLARIZED HEADER, 4-WALL, LATCH/EJECT, .050" X .100"			
MAX SURFACE ROUGHNESS		0 ± .00, .00 ± .00, .000 ± .000	CAGE NUMBER: D78-5100-0253-4			
MARKED ONLY		ANGLES	MODEL: 810			

78-5100-0253-4
 REVISED
 1/25/2022 -- UTC
 Drf-set (hrs) 6

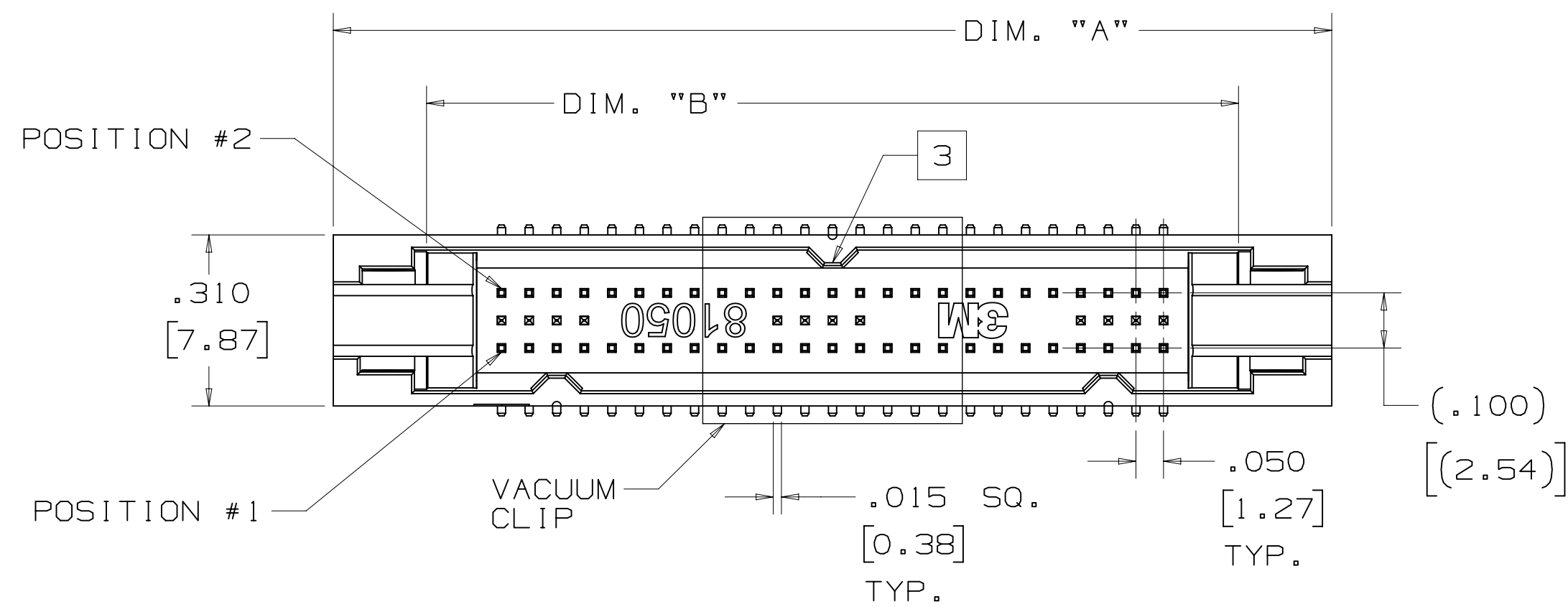
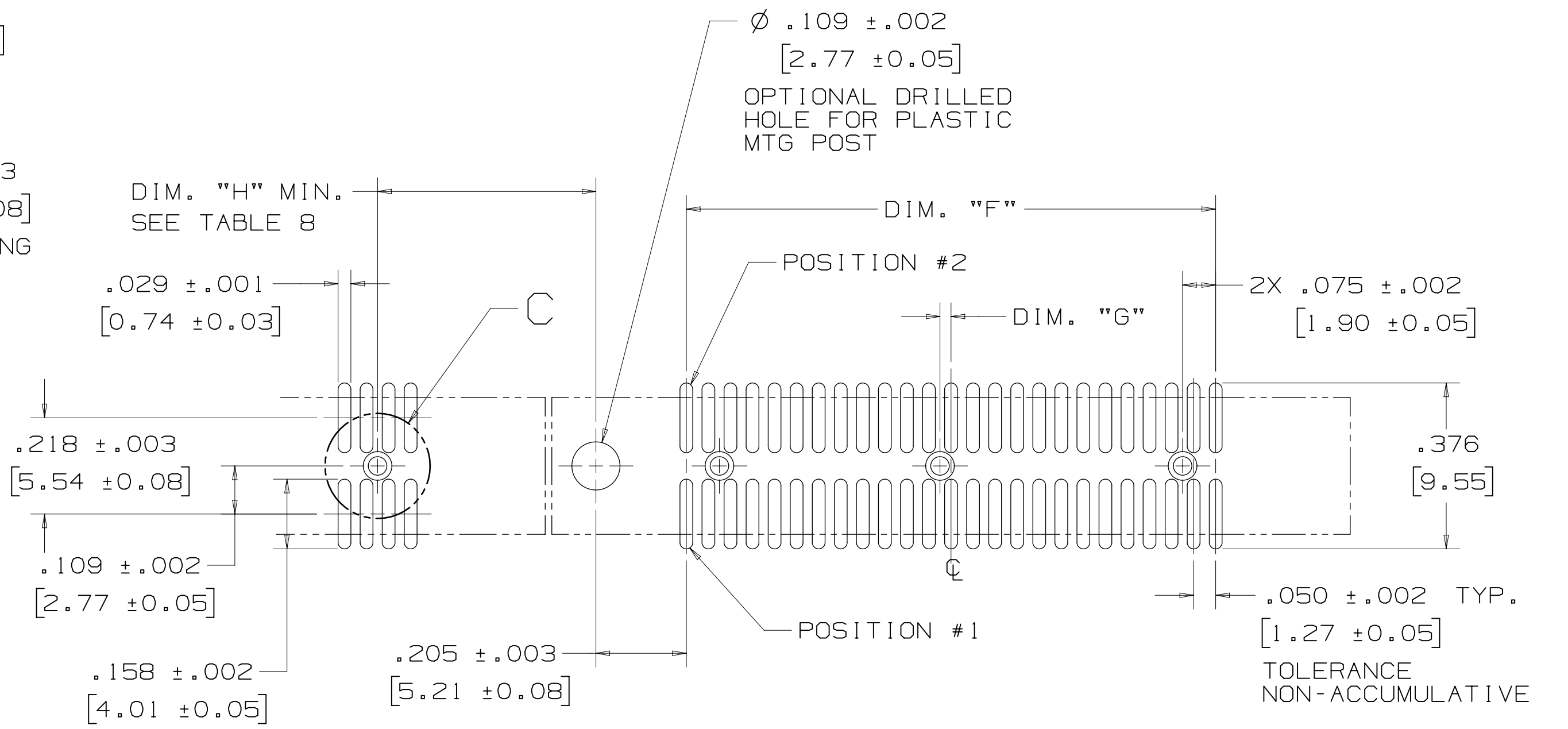
3M™ 4-WALL, TRIPOLARIZED HEADER, 810 SERIES
 .050" X .100" LATCH/EJECTOR, PTH AND SMT STRAIGHT, PTH RIGHT ANGLE

CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "D" SHORT	DIM. "D" LONG	DIM. "F"	DIM. "G"	TAPE AND REEL SUFFIX
020	1.060 [26.92]	.722 [18.34]	1.671 [42.44]	1.842 [46.79]	.450 [11.43]	N/A	WF
026	1.210 [30.73]	.872 [22.15]	1.821 [46.25]	1.992 [50.60]	.600 [15.24]	.025 [0.64]	WF
036	1.460 [37.80]	1.122 [28.50]	2.071 [52.60]	2.242 [56.95]	.850 [21.59]	N/A	WG
040	1.560 [39.62]	1.222 [31.04]	2.171 [55.14]	2.342 [59.49]	.950 [24.13]	N/A	WG
050	1.810 [45.97]	1.472 [37.39]	2.421 [61.49]	2.592 [65.84]	1.200 [30.48]	.025 [0.64]	WG
060	2.060 [52.32]	1.722 [43.74]	2.671 [67.84]	2.842 [72.19]	1.450 [36.83]	0.000	WG
068	2.260 [57.40]	1.922 [48.82]	2.871 [72.92]	3.042 [77.27]	1.650 [41.91]	0.000	WH
080	2.560 [65.02]	2.222 [56.44]	3.171 [80.54]	3.342 [84.89]	1.950 [49.53]	0.000	WH
100	3.060 [77.72]	2.722 [69.14]	3.671 [93.24]	3.842 [97.59]	2.450 [62.23]	0.000	WH

- NOTE:
- LATCHES SUPPLIED IN THE "OPEN" POSITION UNLESS SPECIFIED OTHERWISE
 - SUFFIX DETERMINED WITH NO POSTS OR CLIPS.
 - ADDITION OF POSTS OR CLIPS MAY INCREASE SUFFIX.
 - 120MM (WH) IS THE MAXIMUM WIDTH OF POCKET TAPE.



ADJACENT CONNECTOR	
EJECTOR LATCHES	DIM. "H"
NONE	.775 [19.69]
LONG	1.085 [27.56]
SHORT	1.21 [30.73]



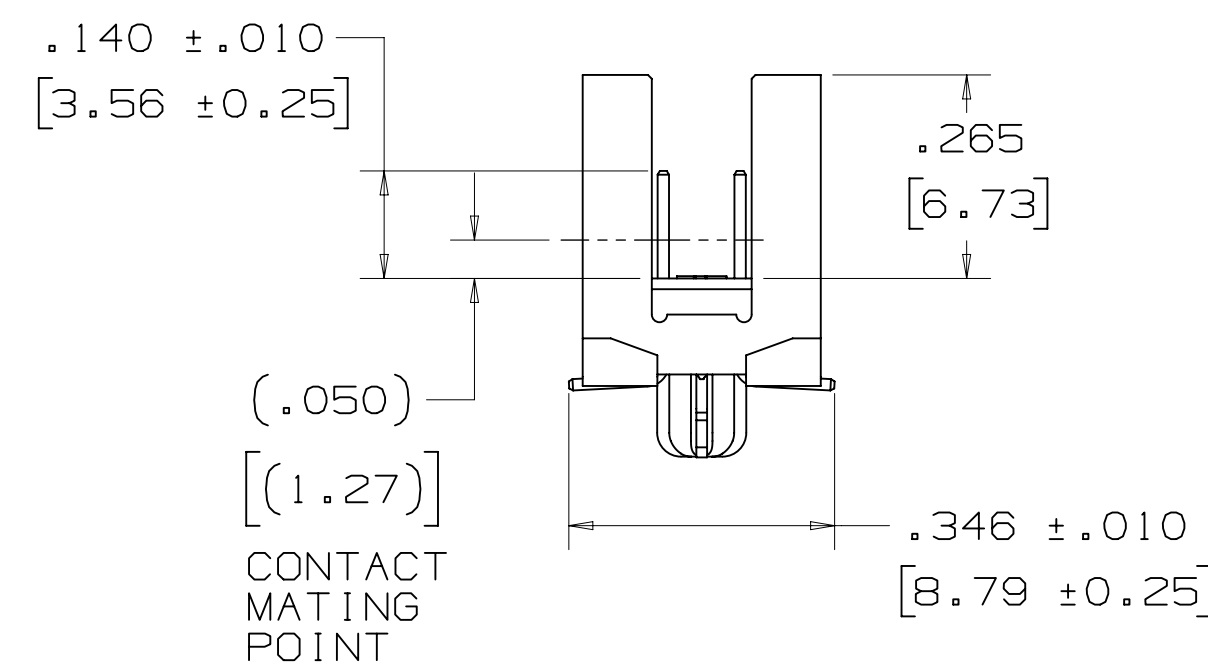
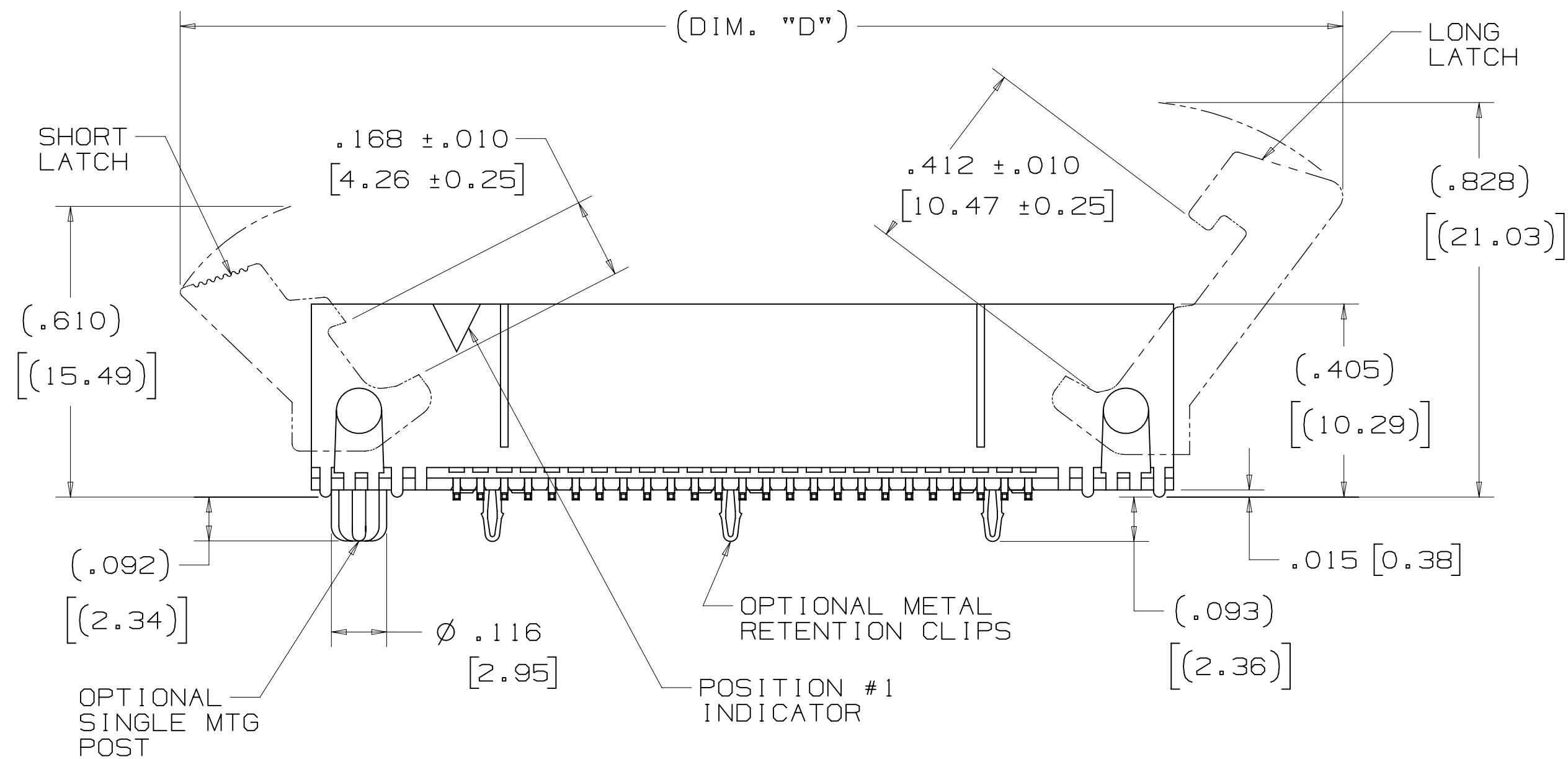
ORDERING INFORMATION
 SURFACE MOUNT STRAIGHT HEADER
 81XXX-6XOCOX-RB-XX

EJECTOR/LATCH SYSTEM:
 0 = NONE (SPECIAL ORDER)
 5 = WITH SHORT EJECTORS INSTALLED (SPECIAL ORDER)
 6 = WITH LONG EJECTORS INSTALLED (STANDARD)

PACKAGING OPTIONS:
 BLANK = TRAYS
 WX = TAPE AND REEL PACKAGE
 SEE TABLE 7

BOARD MOUNTING OPTIONS:
 1 = NONE
 4 = PRESS FIT POST AT POSITION 1 END
 7 = METAL RETENTION CLIPS
 8 = POS #1 END POST AND METAL RETENTION CLIPS (SPECIAL ORDER)

EJECTOR LATCHES
 (IF ORDERED SEPARATELY)
 LONG LATCHES: 3505-28
 SHORT LATCHES: 3505-29



DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JAN 13, 2022	JNC	SAN
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION		EMSD		INCHES: .00 ± .01		
MAX SURFACE ROUGHNESS		MILLIMETERS: 0 ± .00		.000 ± .005		
MARKED ONLY		ANGLES		.0000 ± .0002		
CAGE NUMBER		DRAWING NO.		REV.		
D 78-5100-0253-4		L		L		
MODEL		810		SHT 4 OF 5		

78-5100-0253-4
 1/25/2022 -- UTC
 6 hrs
 1/25/2022 -- UTC
 6 hrs

3M™ 4-WALL, TRIPOLARIZED HEADER, 810 SERIES
 .050" X .100" LATCH/EJECTOR, PTH AND SMT STRAIGHT, PTH RIGHT ANGLE

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.


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 Electronics Materials Solutions Division
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 Austin, TX 78753-5380
 1-800-225-5373
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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JAN 13, 2022 REVISED AND REDRAWN	JNC	SAN
APPROVED	DATE	DATE	MFG	DATE		
CASTIGLIONE	JAN 13, 2022			JAN 13, 2022		
CHKD	DATE	APPRV	DATE			
		S. NEU	JAN 13, 2022			
DIVISION	DIVISION CODE	 © 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.				
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ± .0 ± .00 ± .000 ±				
MAX SURFACE ROUGHNESS	MARKED ONLY	CAGE NUMBER DRAWING NO. MODEL 810				
		REV. L DET. [] YES [X] NO [] SHT 5 OF 5				

78-5100-0253-4
 DRAWING NUMBER
 1/25/2022 -- UTC
 Drf.set (hrs) 6