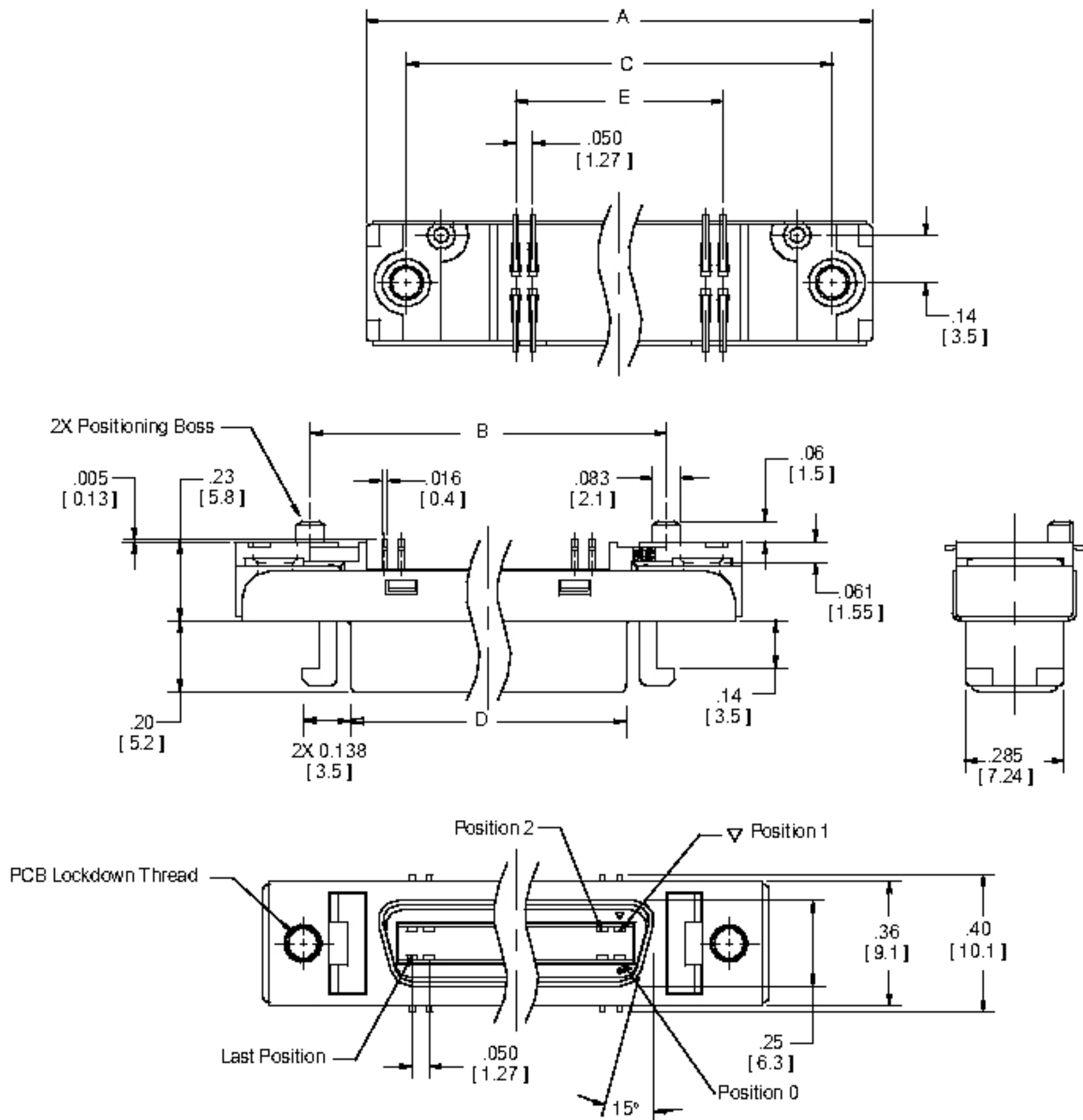


3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED

- * WIPER-ON-WIPER CONTACT FOR RELIABLE REPETITIVE PLUGGING.
- * INTERFACE LATCH DESIGN FOR CONNECTION STABILITY.
- * IEEE 1284C INTERFACE AS A 36 CONTACT CONNECTOR.
- * CONTACTS: 20, 26 AND 36.



NOTE:
1) SOLDER TAIL TIPS ARE FORMED AWAY FROM BOARD,
SO TIP DIMENSION IS GREATER THAN FOOTPRINT TOTAL WIDTH.
2) SEE TABLE 1 FOR DIMENSIONS.

TABLE 1					
POS.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
20	1.315 [33.40]	.879 [22.32]	1.081 [27.45]	.65 [16.41]	.450 [11.43]
26	1.465 [37.21]	1.029 [26.13]	1.231 [31.26]	.80 [20.22]	.600 [15.24]
36	1.715 [43.56]	1.279 [32.48]	1.481 [37.61]	1.05 [26.57]	.850 [21.59]

ORDERING INFORMATION
102XX-22XOPE

CONTACT QUANTITY: (SEE TABLE 1)
PANEL / BOARD RETENTION FEATURE:
0 = M2.6 (SPECIAL ORDER)
1 = M2.5 (STANDARD - SEE NOTE3)

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2 PHYSICAL :

INSULATOR: GLASS REINFORCED POLYESTER (PCT)
MATERIAL: UL94V-0
FLAMMABILITY: COLOR: BEIGE
CONTACT: COPPER ALLOY
MATERIAL: PLATING:
UNDER PLATING: 80μ" [2.0μm] NICKEL-OVERALL
WIPING AREA: 20μ" [0.50μm] MIN. GOLD
SOLDER TAILS: GOLD FLASH OVER NICKEL
BODY: MATERIAL: ZINC ALLOY
PLATING: NICKEL
SHROUD: MATERIAL: STEEL
PLATING: NICKEL
MARKINGS: 3M LOGO, PART NUMBER

2 ELECTRICAL :

CURRENT RATING: 1A.
INSULATION RESISTANCE: >5 X 10⁹Ω AT 500 V_{DC}
WITHSTANDING VOLTAGE: 500V_{RMS} FOR 1 MINUTE

2 ENVIRONMENTAL :

TEMPERATURE RATING: -55° C TO +105°
PROCESS RATING: 260° C, (PROFILE PER J-STD-020C)

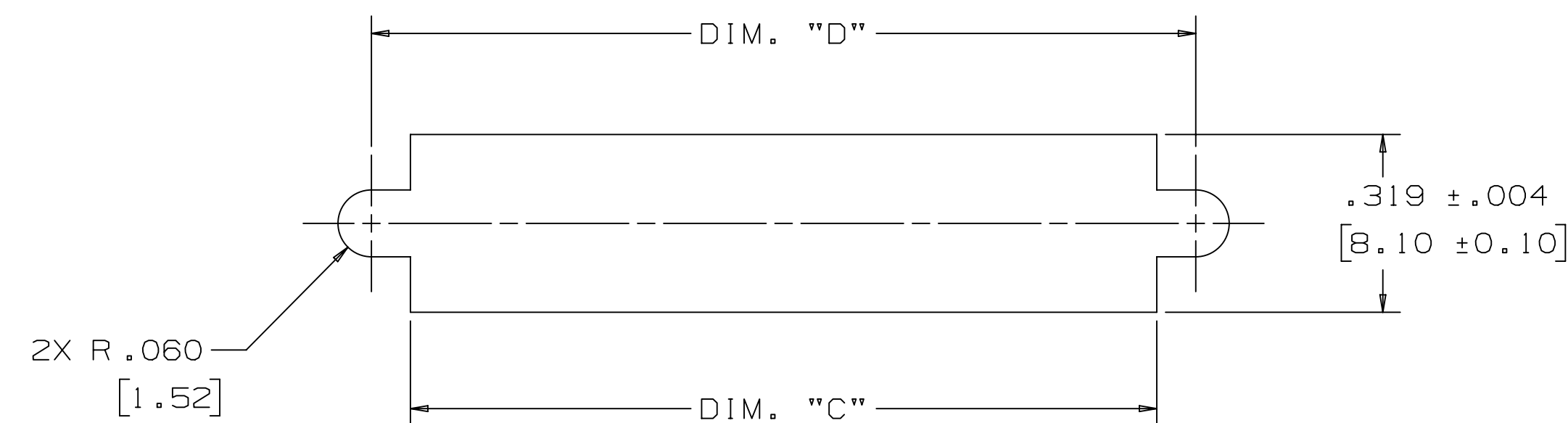
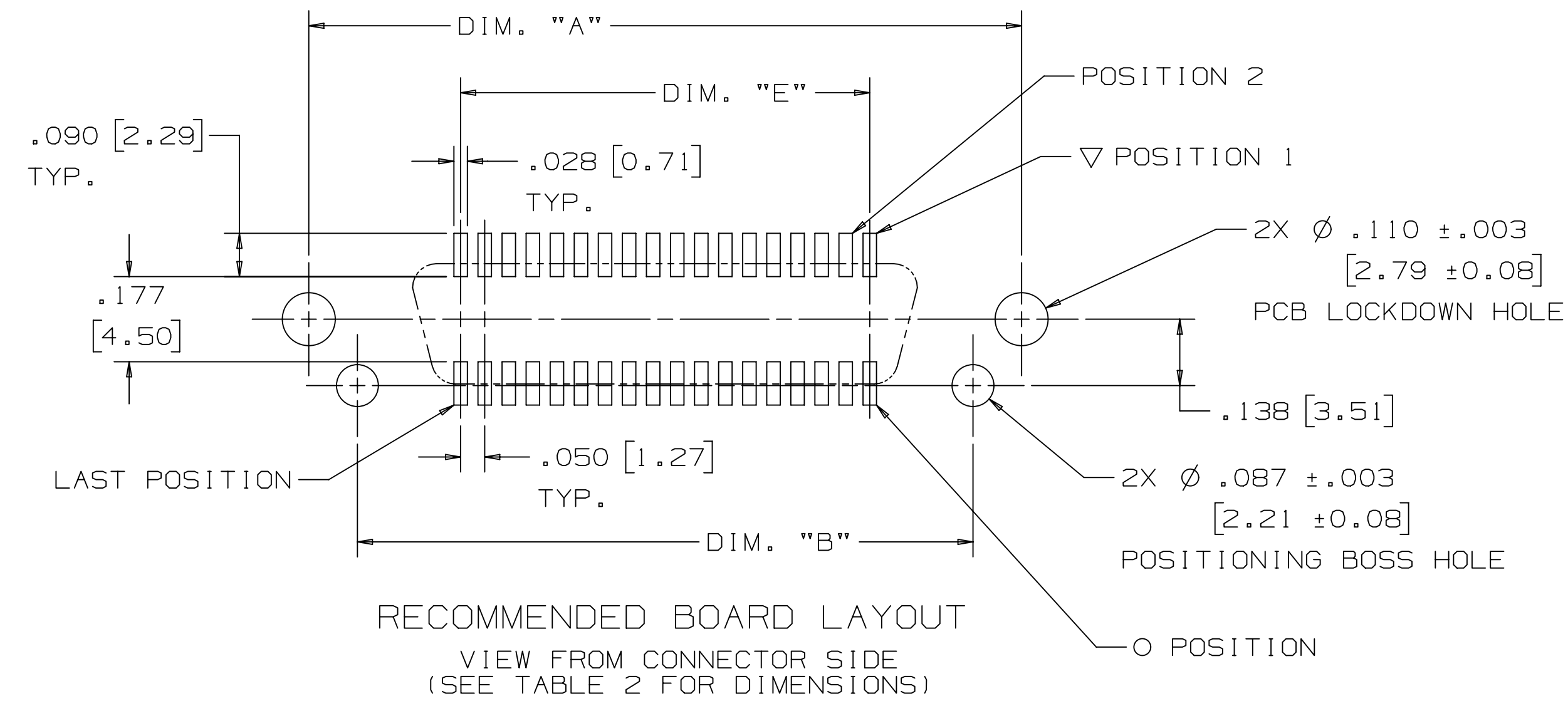
- NOTES
1. REGULATORY INFORMATION:
VISIT 3M.com/regs
 2. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 3. WHEN USING THE 3M™ 3341-31
JACKSOCKET AND 3M™ CAMERA
LINK CABLE ASSEMBLY, THE 3M
CONNECTOR PART NUMBER IS
10226-2210PE.

DIMENSIONS: INCHES [MM]
[MM] IS FOR REF. ONLY

DESIGN REFERENCE		NEXT ASSEMBLY	
DESIGN CODES		DESIGN CODES	
DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018	
MAX. SURFACE ROUGHNESS		ALL SURFACES	
MARKED ONLY		ANGLES	

C	109418	MAR 21, 2023	JNC	FJR
B	16870	DEC 13, 2007	DFC	
A	AT2128	APR 24, 2007	ARM	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CSTIGLIONE	DATE MAR 21, 2023	MFG	DATE
CHKD		DATE	APPR	DATE
			F. RODRIGUEZ	MAR 21, 2023
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3M Center St. Paul, MN 55144				
TITLE MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-0638-6	C		
MODEL	102	DET	YES	NO
		SHT	1	OF 3

3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
 .050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED






RECOMMENDED PANEL CUT-OUT
(SEE TABLE 2 FOR DIMENSIONS)
NOTE: 1) PANEL THICKNESS .079 [2.00] MAX.

POS.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
20	1.081 [27.45]	.879 [22.32]	.94 [23.80]	1.08 [27.45]	.450 [11.43]
26	1.231 [31.26]	1.029 [26.13]	1.09 [27.61]	1.23 [31.26]	.600 [15.24]
36	1.481 [37.61]	1.279 [32.48]	1.34 [33.96]	1.48 [37.61]	.850 [21.59]

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C	109418	MAR 21, 2023	JNC	FJR
B	16870	DEC 13, 2007	DFC	
A	AT1218	APR 24, 2007	ARM	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CASTIGLIONE	MAR 21, 2023	DATE	
CHKD		APPROV. RODRIGUEZ	DATE	MAR 21, 2023

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACROSS CODES				DRFT	CASTIGLIONE	DATE MAR 21, 2023		MFG	DATE
				CHKD		DATE		APPRV F. RODRIGUEZ	DATE MAR 21, 2023
DIVISION		DIVISION CODE DEPP				<p>© 3M COPYRIGHT 2025</p> <p>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.</p>			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED							
		INCHES .00 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0005		TITLE		MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED			
THIRD ANGLE PROJECTION		MILLIMETERS 0 ± .01 ± .000 ±		CAGE NUMBER		SIZE		DRAWING NO.	
INTERPRET PER ASME Y14.5 - 2018		<input checked="" type="checkbox"/> ALL SURFACES <input type="checkbox"/> MAX SURFACE ONLY		D		78-5100-0638-6		REV. C	
MAX SURFACE ROUGHNESS 		ANGLES ±		MODEL		102		DET. LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
								SHT 2 OF 2	

.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED


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		C	I09418	MAR 21,2023		JNC	FJR
		B	I6870	REVISED AND REDRAWN DEC 13,2007 UPDATED TS		DFC	
		A	AT2128	APR 24,2007 RELEASED INTO PLM		ARM	
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT
ADDRESS CODES		DRAFT CASTIGLIONE		DATE	MAR 21,2023	MFG	DATE
DIVISION		DIVISION CODE DEPP		CHKD	DATE	APPROVAL F. RODRIGUEZ	DATE MAR 21,2023
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144			
SCALE		INCHES		© 3M COPYRIGHT 2025 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		TITLE MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED			
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS		CASE NUMBER D 78-5100-0638-6			
ALL SURFACES		MARKED ONLY		SIZE DRAWING NO. 102			
ANGLES		MODEL 102				REV. DET. SHT 3 OF 4	