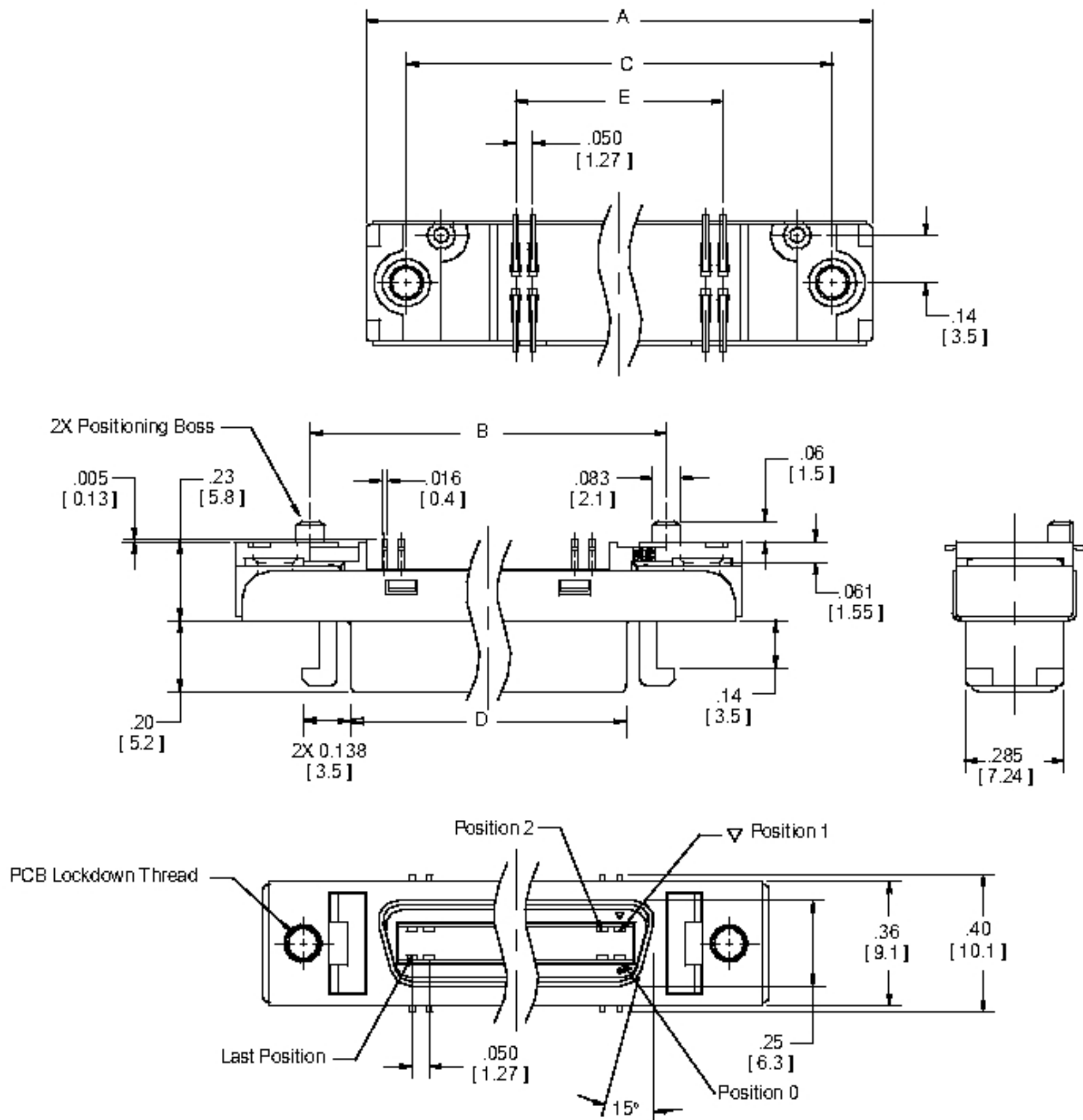


3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED

- * 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: 80μ" [2.0μm] NICKEL-OVERALL
UNDER PLATING: 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)

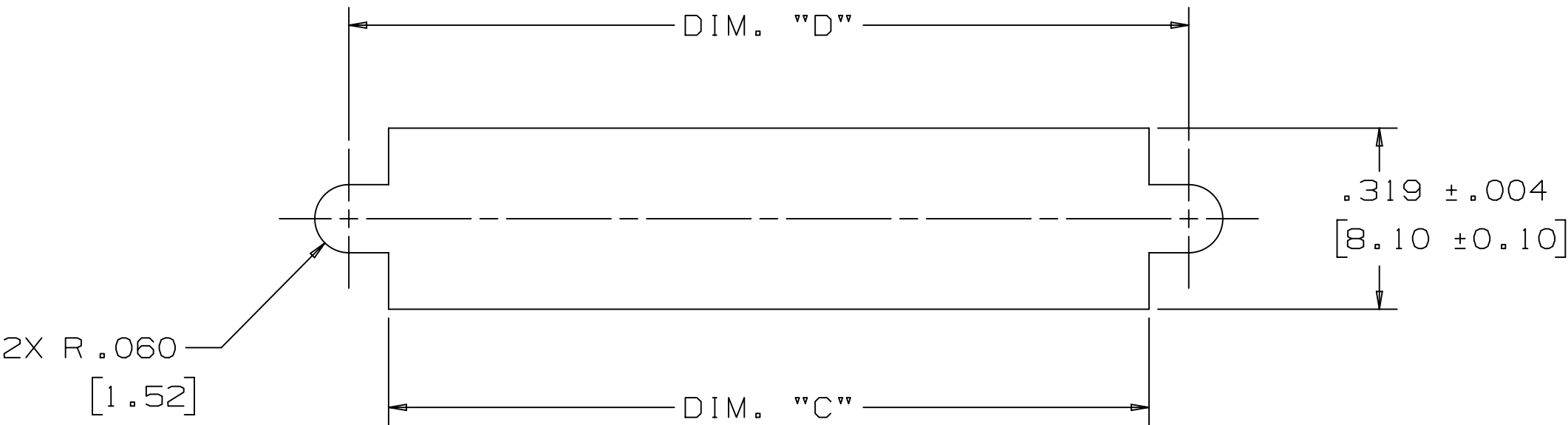
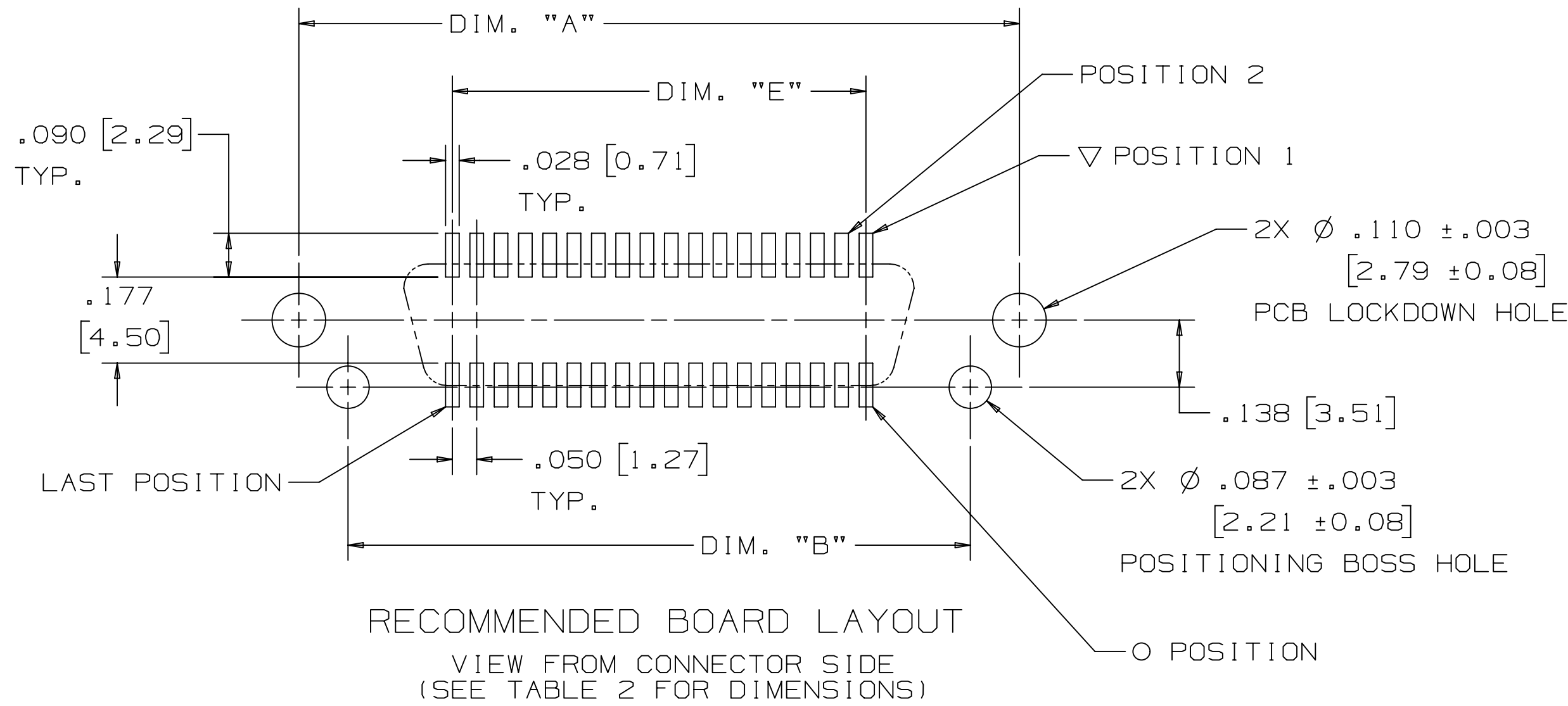
- NOTES
1. REGULATORY INFORMATION:
VISIT 3M.com/regs
 2. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 3. WHEN USING THE 3M™ 3341-31
JACKSOCKET AND 3M™ CAMERA
LINK CABLE ASSEMBLY, THE 3M
CONNECTOR PART NUMBER IS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

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

DESIGN REFERENCE		NEXT ASSEMBLY	
DESIGN CODES		DESIGN CODES	
DIVISION		DIVISION CODE	DEPP
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	CATTIGLIONE	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	1	OF 3

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



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TABLE 2					
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]

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	C	DATE	DATE	DATE
CHKD		DATE	DATE	DATE
APPR	F. RODRIGUEZ	DATE	DATE	DATE

DESIGN REFERENCE	NEXT ASSEMBLY
DO NOT SCALE DRAWING	SCALE
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018
MAX. SURFACE ROUGHNESS	ALL SURFACES
MARKED ONLY	ANGLES

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TITLE	MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED	
CAGE NUMBER	102	DRAWING NO. 78-5100-0638-6
REV.	C	REV. 1
MODEL	102	DET 1
LISTS	YES	NO
SHT	2	OF 3

.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED

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C		109418		MAR 21, 2023		JNC	FJR
B		16870		REVISED AND REDRAWN		DEC 13, 2007	
A		AT2128		UPDATED TS		DFC	
				APR 24, 2007		ARM	
				RELEASED INTO PLM			
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION	
ACCESS CODES				DRFT CHKD			
DIVISION		DIVISION CODE		DATE		DATE	
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		APPROVAL	
THIRD ANGLE PROJECTION		INCHES		3M CENTER		F. RODRIGUEZ	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		ST. PAUL, MN 55144		MAR 21, 2023	
MAX. SURFACE ROUGHNESS		0.0 ±		TITLE		© 3M COPYRIGHT 2025	
ALL SURFACES		0.000 ±		MINI D RIBBON (MDR)		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.	
MARKED ONLY		0.000 ±		CONN, SMT VERTICAL			
		ANGLES ±		RECEPTACLE - SHIELDED			
				CAGE NUMBER		DRAWING NO.	
				SIZE		REV.	
				D		78-5100-0638-6	
				MODEL		LISTS	
				102		YES YES YES NO	
						SHT 3 OF 3	