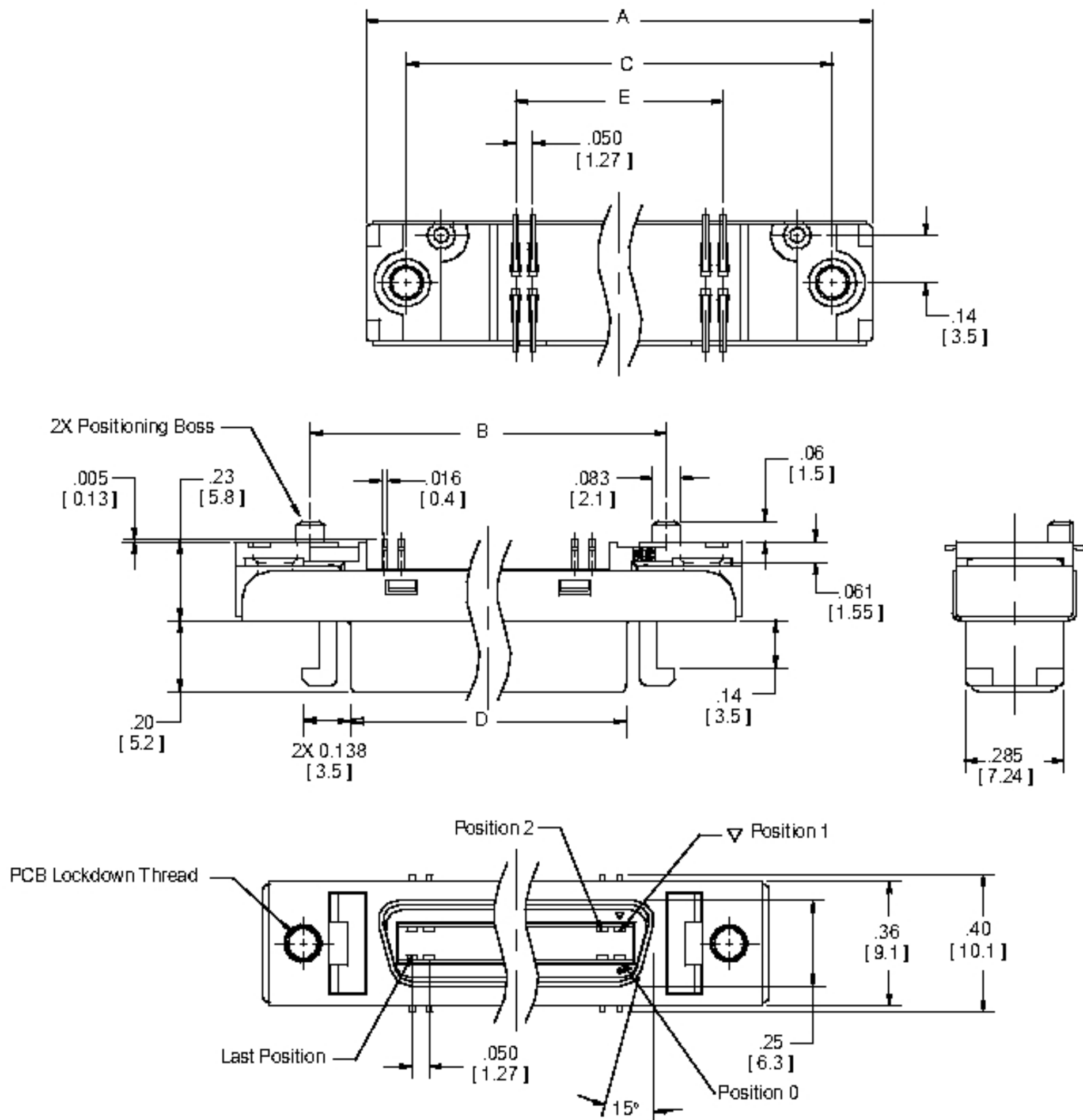


3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED

- * 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)

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

2 PHYSICAL :

INSULATOR: GLASS REINFORCED POLYESTER (PCT)
MATERIAL: UL94V-0
FLAMMABILITY: COLOR: BEIGE
CONTACT: COPPER ALLOY
MATERIAL: PLATING: NICKEL
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)

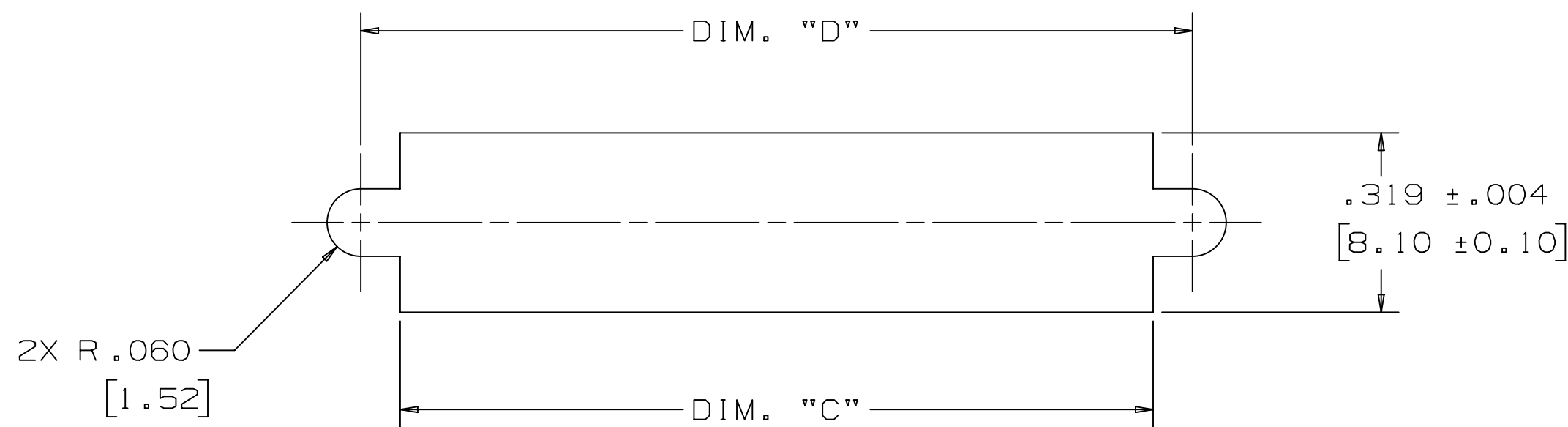
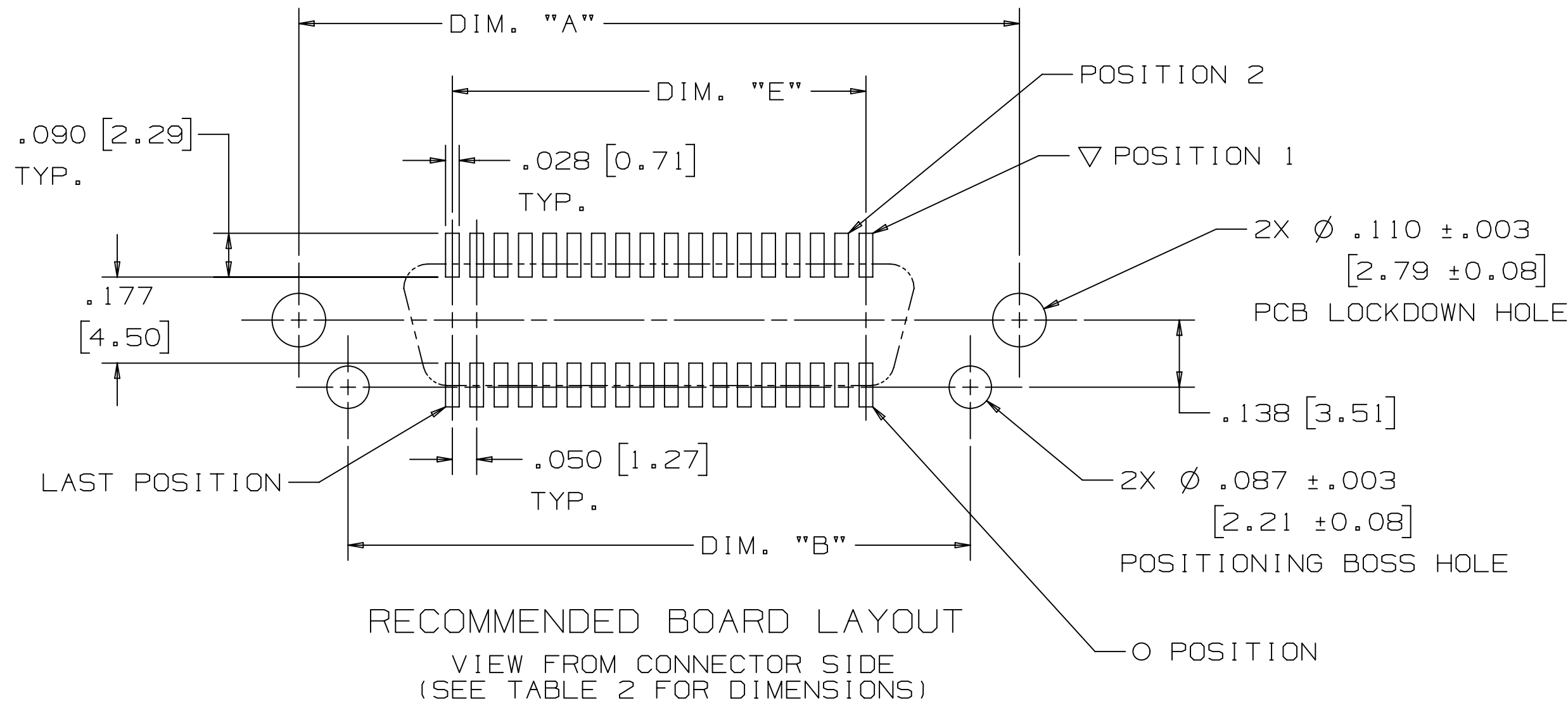
- NOTES
1. REGULATORY INFORMATION:
VISIT 3M.com/regs
 2. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 3. WHEN USING THE 3M™ 3341-31
JACKSOCKET AND 3M™ CAMERA
LINK CABLE ASSEMBLY, THE 3M
CONNECTOR PART NUMBER IS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

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

DESIGN REFERENCE		NEXT ASSEMBLY	
DESIGN CODES			
DIVISION		DIVISION CODE	DEPP
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES	0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0005
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	0 ± .0 ± .00 ± .000 ±
MAX. SURFACE ROUGHNESS		ALL SURFACES	0.00 ± 0.00 ± 0.00 ±
MARKED ONLY		ANGLES	±

C	109418	MAR 21, 2023	JNC	FJR
B	16870	REVISED AND REDRAWN DEC 13, 2007	DFC	
A	AT2128	UPDATED TS APR 24, 2007	ARM	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CSTIGLIONE	DATE MAR 21, 2023	MFG	DATE
CHKD		DATE	APPRV	DATE
			F. RODRIGUEZ	MAR 21, 2023
© 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.				
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
		1	1	1

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



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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

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	CASTIGLIONE	MAR 21, 2023	APPR	F. RODRIGUEZ

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

3M	3M Center St. Paul, MN 55144	© 3M COPYRIGHT 2025 3M property 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.
TITLE	MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED	
CAGE NUMBER	102	DRAWING NO. 78-5100-0638-6
REV.	C	REV. 1

78-5100-0638-6
DRAWING NUMBER

Revision

SHT 2 OF 3

.050" SURFACE MOUNT VERTICAL RECEPTACLE - SHIELDED

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price.

Disclaimer: For industrial use only. Not intended, labeled or packaged for consumer sale or use.

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

		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		DRFT CAS TIGLIONE		DATE MAR 21,2023		MFG	
DIVISION		DIVISION CODE DEPP		DATE		APPROVAL F. RODRIGUEZ	
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED INCHES .00 ± .01 .000 ± .005 .0000 ± .0005		3M Center St. Paul, MN 55144 © 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 .0 .00 ± .000 ± .000 ±		TITLE MINI D RIBBON (MDR) CONN, SMT VERTICAL RECEPTACLE - SHIELDED			
INTERPRET PER ASME Y14.5 - 2018 MAX SURFACE ROUGHNESS ALL SURFACES MARKED ONLY		ALL SURFACES 0 .00 ± .000 ±		CASE NUMBER SIZE DRAWING NO. 578-5100-0638-6		REV. C	
MODEL I02		DATE DET YES NO		SHT 3 OF 3		REV.	