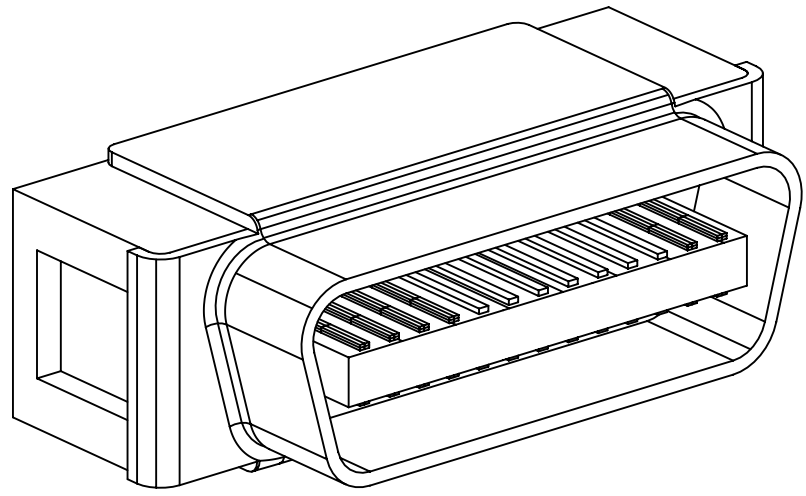


3M™ MINI D RIBBON (MDR) CONNECTORS, 101 SERIES
.050" STRADDLEMOUNT PLUG - SHIELDED



101XX-900APX
PLUG

2 PHYSICAL :

INSULATION MATERIAL :
 BODY : GLASS REINFORCED POLYESTER (PBT)
 INSERT MOLD : GLASS REINFORCED POLYESTER (LCP)
 FLAMMABILITY : UL94V-0
 COLOR : BLACK
CONTACT MATERIAL : COPPER ALLOY
 PLATING :
 UNDER PLATING : 80µ" (2.0µm) NICKEL-OVERALL
 WIPING AREA : SEE ORDERING INFORMATION
 SOLDER TAILS : GOLD FLASH OVER NICKEL (R1A E1 & C1 APPLY)
BODY MATERIAL : ZINC ALLOY
 PLATING : NICKEL
SHROUD MATERIAL : STEEL
 PLATING : NICKEL
MARKINGS : 3M LOGO AND PART NUMBER

2 ELECTRICAL :

CURRENT RATING : 1A
INSULATION RESISTANCE : >5 X 10⁸Ω AT 500 V_{DC}
WITHSTANDING VOLTAGE : 500V_{RMS} FOR 1 MINUTE

2 ENVIRONMENTAL :

TEMPERATURE RATING : -20° C TO 85° C

ORDERING INFORMATION

101XX-900APX

CONTACT QTY :
(SEE TABLE 1)
NOTE : AO=100

WIPING CONTACT PLATING :
L = 8µ" (0.2µm) MIN. GOLD (R1A E1 & C1 APPLY)
C = 30µ" (0.76µm) MIN. GOLD (R1A E1 & C1 APPLY)

COMPATIBLE BOARD THICKNESS :
A = 1.0MM STANDARD
O = 1.6MM SPECIAL ORDER

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. THERE ARE TWO SLOTS IN THE
PLUG THAT ARE A STOP FOR THE
PC BOARD TO KEEP IT FROM
ENTERING FURTHER INTO THE
PLUG.

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES				DRP	CASTIGLIONE		DATE	MFG	DATE
				CHKD			JUL 07,2015		JUL 07,2015
DIVISION		DIVISION CODE		APPR		B. CRONCH		DATE	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2024			
THIRD ANGLE PROJECTION		INCHES .0 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0002		MILLIMETERS 0 ±2 .0 ±.3 .00 ±.13 .000 ±.005		3M Center St. Paul, MN 55144 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.			
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS 12.5 SURFACES		CAGE NUMBER		DRAWING NO.		REV.	
MARKED ONLY		ANGLES		D		78-5100-0698-0		F	
				MODEL		101XX		DET LISTS YES NO SHT 1 OF 3	

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

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UL FILE NO: E68080

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.050" STRADDLEMOUNT PLUG - SHIELDED

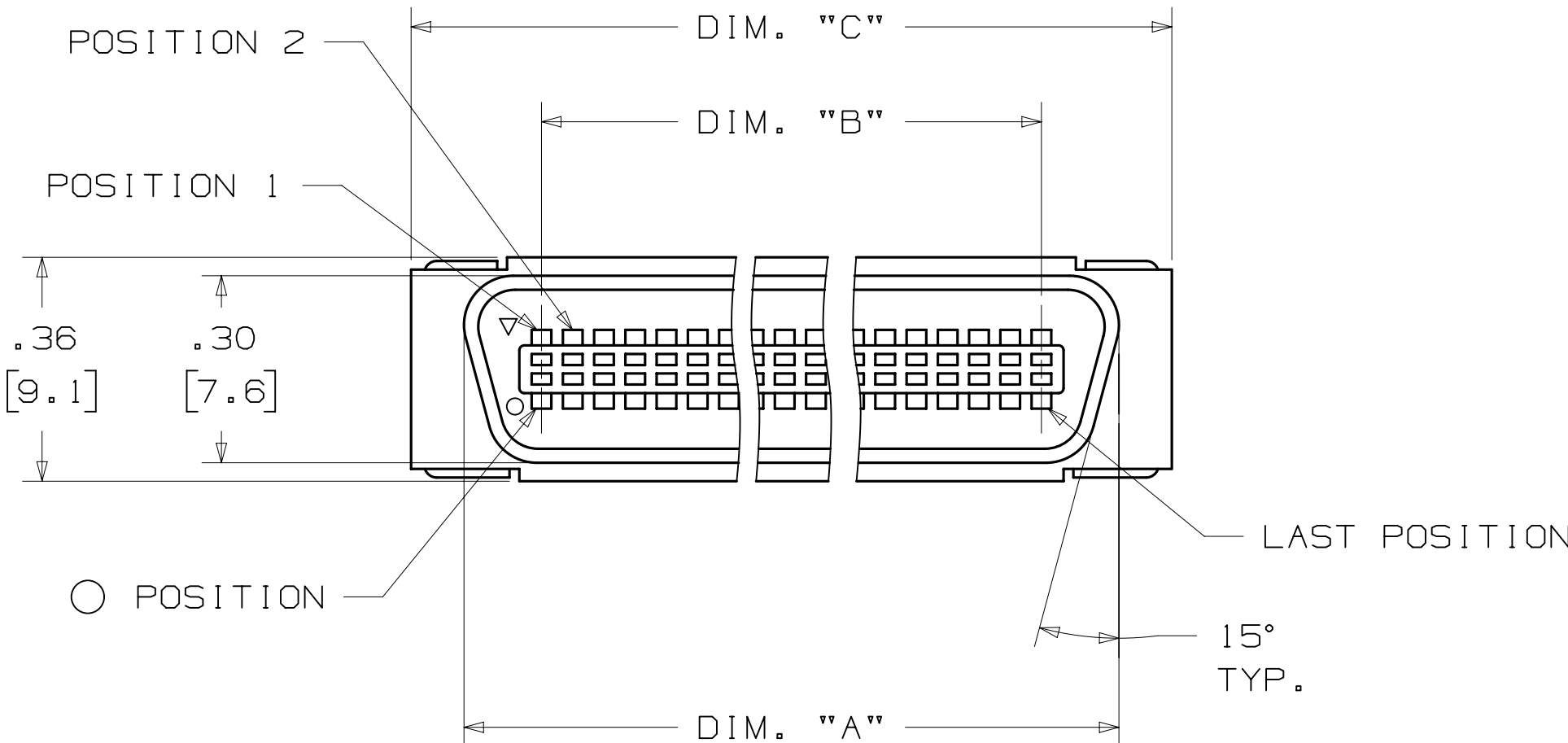
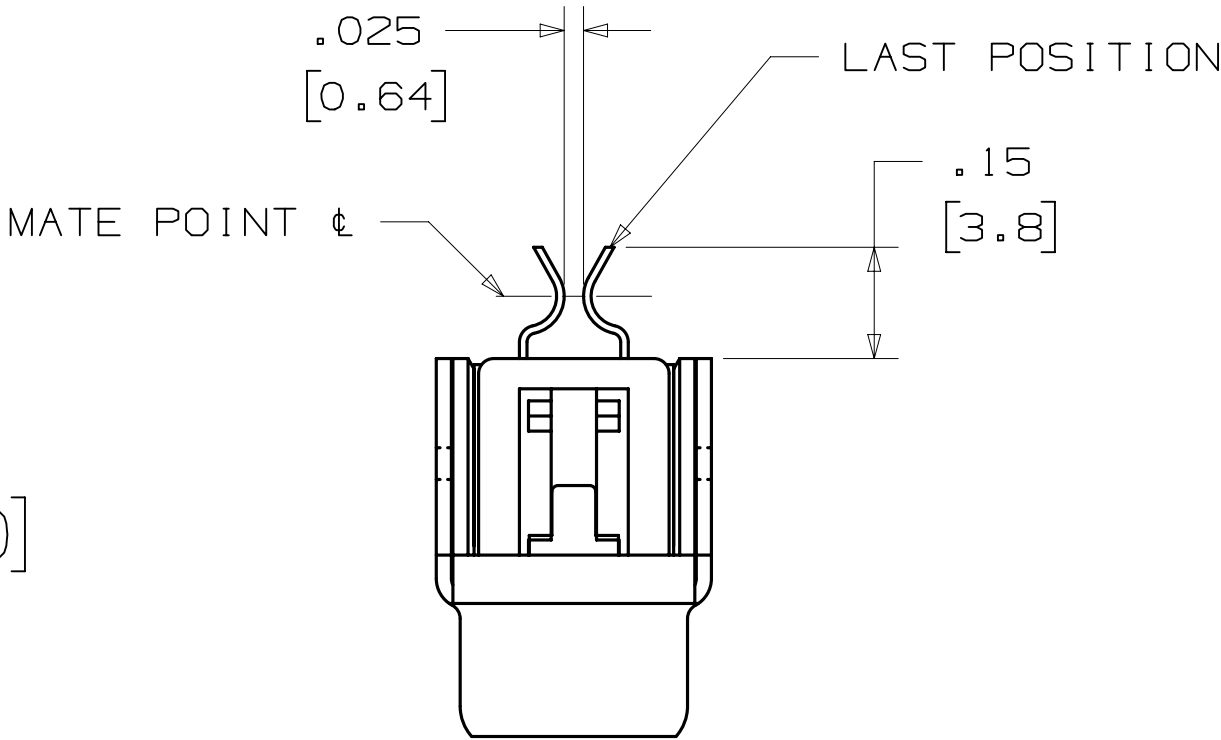
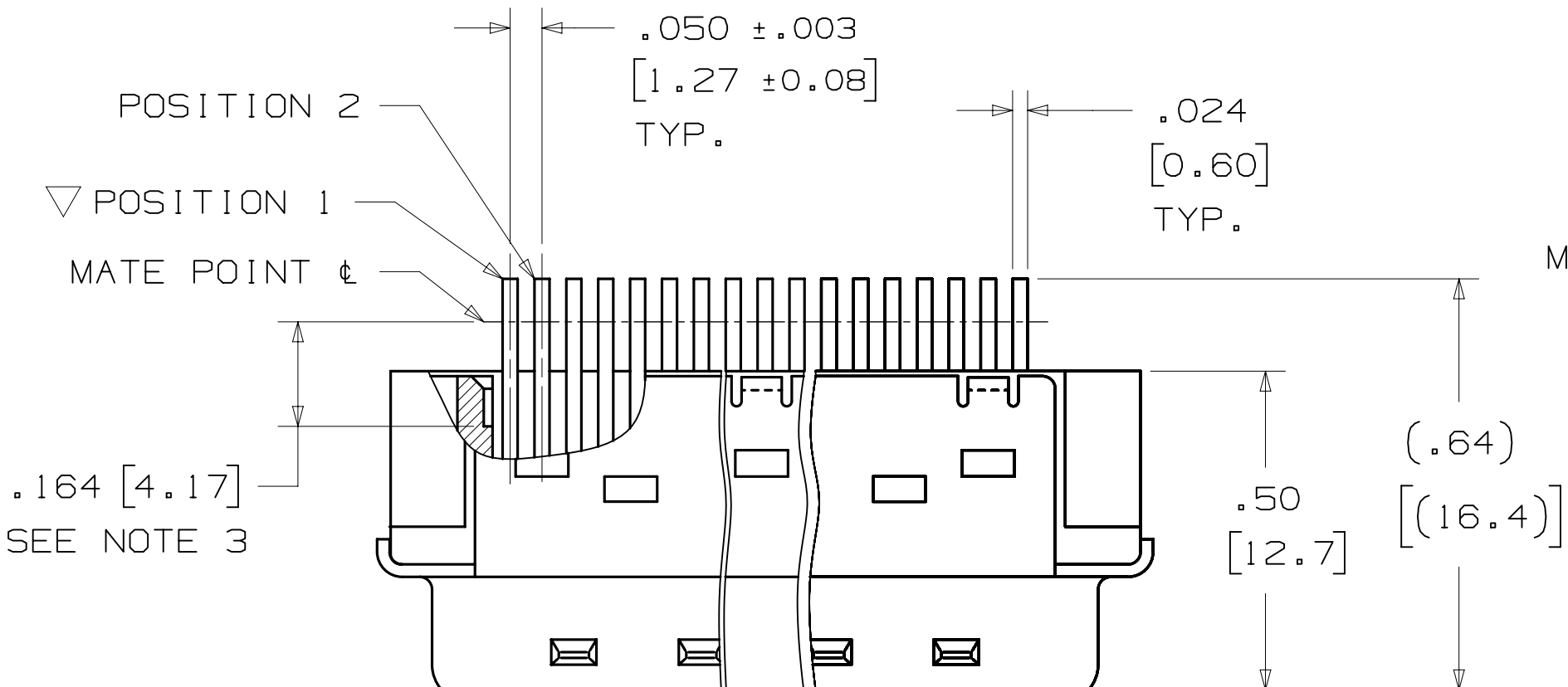
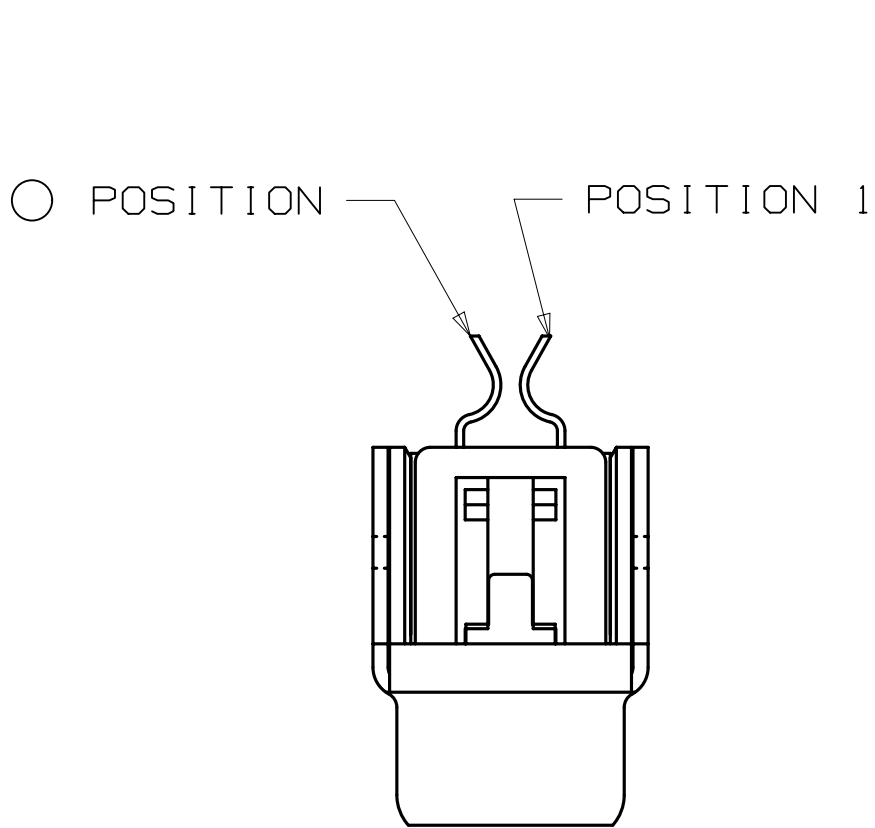
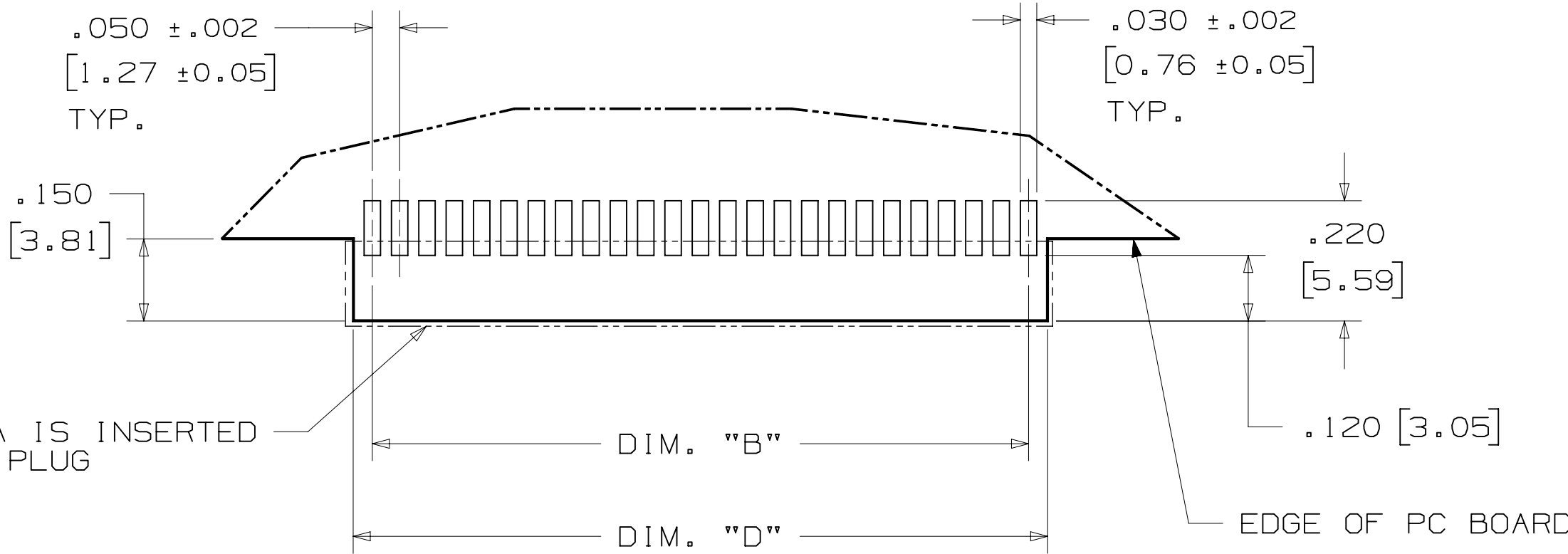


TABLE 1				
POSITIONS	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
26	.84 [21.4]	.60 [15.2]	1.02 [25.8]	.68 [17.2]
50	1.44 [36.6]	1.20 [30.5]	1.62 [41.1]	1.27 [32.3]
68	1.89 [48.1]	1.65 [41.9]	2.07 [52.5]	1.72 [43.7]
100	2.66 [67.5]	2.45 [62.2]	2.87 [72.8]	2.52 [64.0]



THIS AREA IS INSERTED INTO THE PLUG

RECOMMENDED PAD LAYOUT
(SOLDER PAD PATTERN REPEATED ON BOTH SIDES OF BOARD)

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F	114445	FEB 12,2024 REVISED MATERIAL	JNC	FJR
E	95427	FEB 11,2021 REVISE 68P DIM C	JNC	FJR
D	28356	FEB 20,2017 2-20-17 ADD 3M NOTE TO SHT2 7-7-15 REVISED & REDRAWN, 7-15-16 REVISED PCB LAYOUT	JNC	DC

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES				DRP	CASTIGLIONE	DATE	JUL 07,2015	MFG	DATE
DIVISION		DIVISION CODE		CHKD		DATE		APPRV	DATE
								D. CRONCH	JUL 07,2015
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MAX SURFACE ROUGHNESS						TITLE			
SURFACES						MINI D RIBBON (MDR) CONNECTOR, .050" STRADDLEMOUNT PLUG			
MARKED ONLY						CAGE NUMBER			
						D 78-5100-0698-0			
						MODEL			
						101XX			
						REV.			
						F			
						SHT 2 OF 3			

3M™ MINI D RIBBON (MDR) CONNECTORS, 101 SERIES

.050" STRADDLEMOUNT PLUG - SHIELDED

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CHKD		DATE	DATE	DATE	
			B. CRONCH	JUL 07,2015	
DIVISION	DIVISION CODE				
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED		3M	
THIRD ANGLE PROJECTION		INCHES .00 ±.01 .000 ±.005 .0000 ±.0002		© 3M COPYRIGHT 2024	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ±.2 .0 ±.13 .000 ±.005		3M Center St. Paul, MN 55144	
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MARKED ONLY		ANGLES		TITLE	
				MINI D RIBBON (MDR) CONNECTOR, .050" STRADDLEMOUNT PLUG	
		CAGE NUMBER	SIZE	DRAWING NO.	REV.
		D		78-5100-0698-0	F
		MODEL		101XX	DET
					YES NO
					SHT 3 OF 3