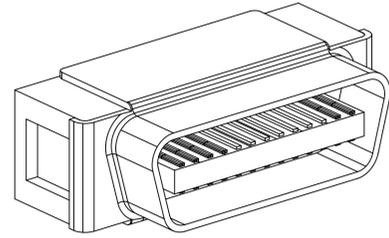


3M™ MINI D RIBBON (MDR) CONNECTORS, 101 SERIES
 .050" STRADDLEMOUNT PLUG - SHIELDED



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 (RIA 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 10⁹Ω AT 500 V_{DC}
 WITHSTANDING VOLTAGE: 500V_{RMS} FOR 1 MINUTE

2 ENVIRONMENTAL :

TEMPERATURE RATING: -20°C TO 85°C

- NOTES
- REGULATORY INFORMATION:
 VISIT 3M.com/regs
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 - THERE ARE TWO SLOTS IN THE PLUG THAT ARE A STOP FOR THE PCB BOARD TO KEEP IT FROM ENTERING FURTHER INTO THE PLUG.

ORDERING INFORMATION

101XX-900APX

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

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

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

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

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3M
 UL FILE NO: E68080

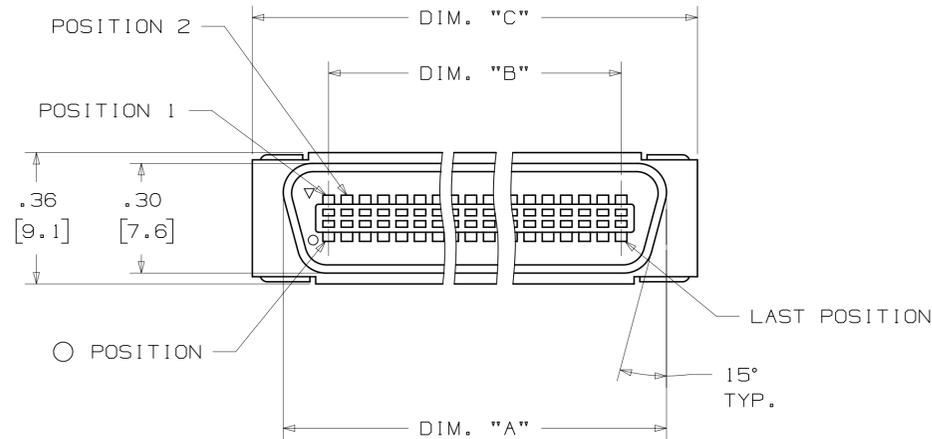
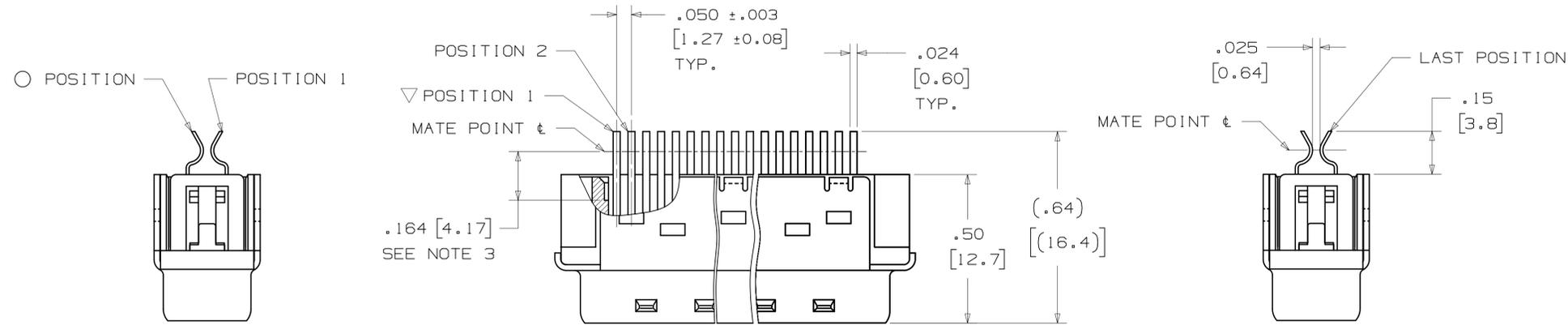
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	114445	FEB 12, 2024 REVISED MATERIAL	JNC	FJR
E	95427	FEB 11, 2021 REVISE 68P DIM C	JNC	FJR
D	28356	FEB 20, 2017 2-20-17 ADD 3M NOTE TO SHT2 7-7-15 REVISED & REDRAWN, 7-15-16 REVISED PCB LAYOUT	JNC	DC

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACROSS CODES		DRFT	CASTIGLIONE	DATE JUL 07, 2015	MFG DATE	
DIVISION	DIVISION CODE	CHKD		DATE	APPRV	DATE
					D. CRONCH	JUL 07, 2015
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2024 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		INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002		TITLE MINI D RIBBON (MDR) CONNECTOR, .050" STRADDLEMOUNT PLUG		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .3 .0 ± .13 .000 ± .005		CAGE NUMBER D 78-5100-0698-0		
MAX SURFACE ROUGHNESS		<input checked="" type="checkbox"/> MARKED ONLY <input type="checkbox"/> UNMARKED ONLY		DRAWING NO. 78-5100-0698-0		
		ANGLE ±		REV. NUMBER F		
				MODEL 101XX		
				DET [] YES [X] NO [] SHT 1 OF 3		

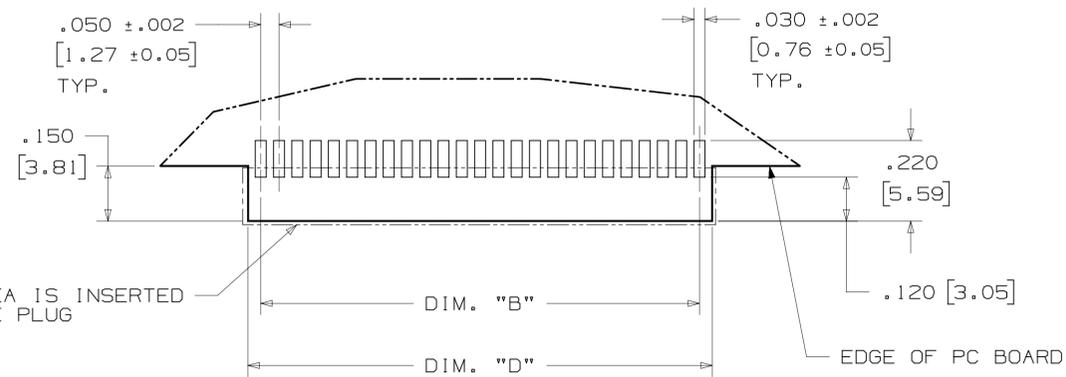
78-5100-0698-0
 DRAWING NUMBER

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

.050" STRADDLEMOUNT PLUG - SHIELDED



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]



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

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APPROVED	DATE	APPROVED	DATE	DATE		
CHKD	DATE	APPV	DATE	DATE		
		D. CRONCH	JUL 07, 2015	JUL 07, 2015		
DIVISION		DIVISION CODE				
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		4/1	INCHES: .0 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0002			
THIRD ANGLE PROJECTION		MILLIMETERS				
INTERPRET PER ASME Y14.5 - 2018		0 ±.2				
MAX SURFACE ROUGHNESS		.0 ±.3				
UNFINISHED SURFACES		.00 ±.13				
MARKED ONLY		.000 ±.005				
		ANGLES				
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TITLE		MINI D RIBBON (MDR) CONNECTOR, .050" STRADDLEMOUNT PLUG				
CAGE NUMBER	SIZE	DRAWING NO.	REV.			
D		78-5100-0698-0	F			
MODEL	101XX	DET	ISTS	YES	NO	SHT 2 OF 3

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

.050" STRADDLEMOUNT PLUG - SHIELDED

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THIRD ANGLE PROJECTION		MILLIMETERS 0 ± 2 .00 ± .13 .000 ± .005		
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS R _a SURFACES R _a MARKED ONLY		

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MINI D RIBBON (MDR) CONNECTOR, .050" STRADDLEMOUNT PLUG	D	78-5100-0698-0	F	

MODEL	101XX	DET	YES	NO	SHT	3 OF 3

78-5100-0698-0 DRAWING NUMBER