

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.



2 ELECTRICAL :

2 ENVIRONMENTAL :

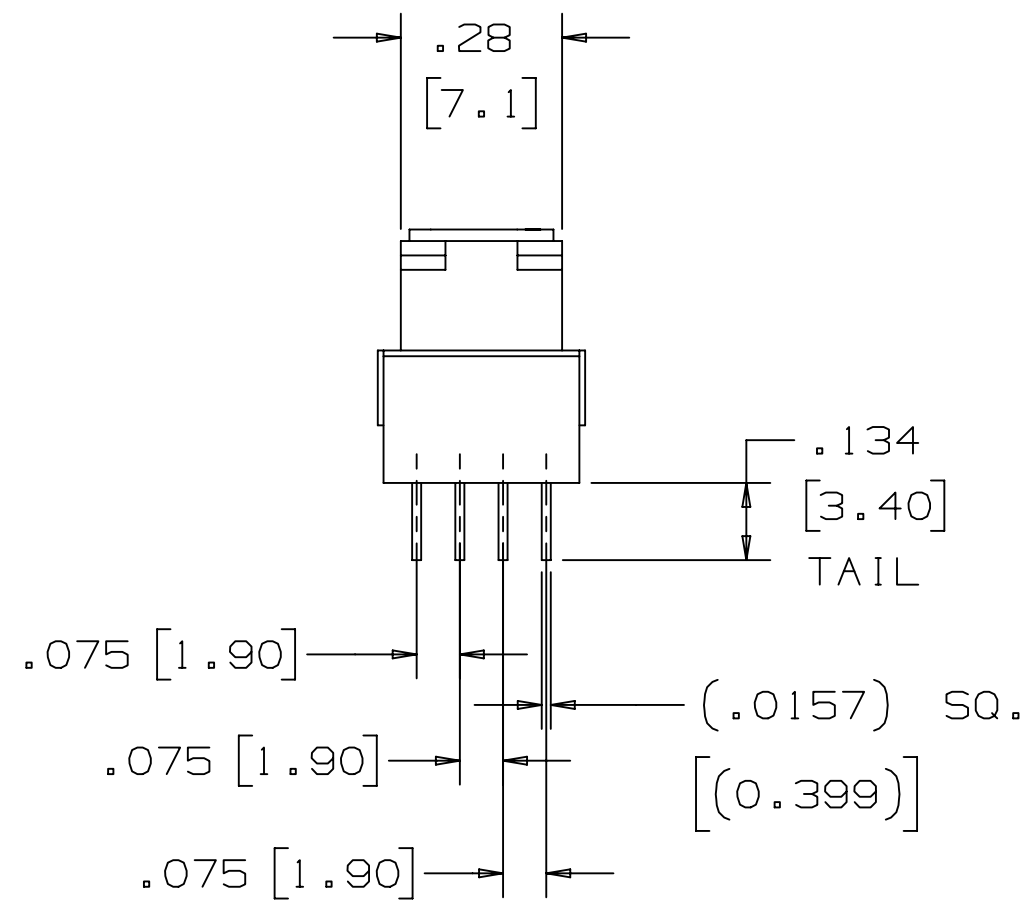
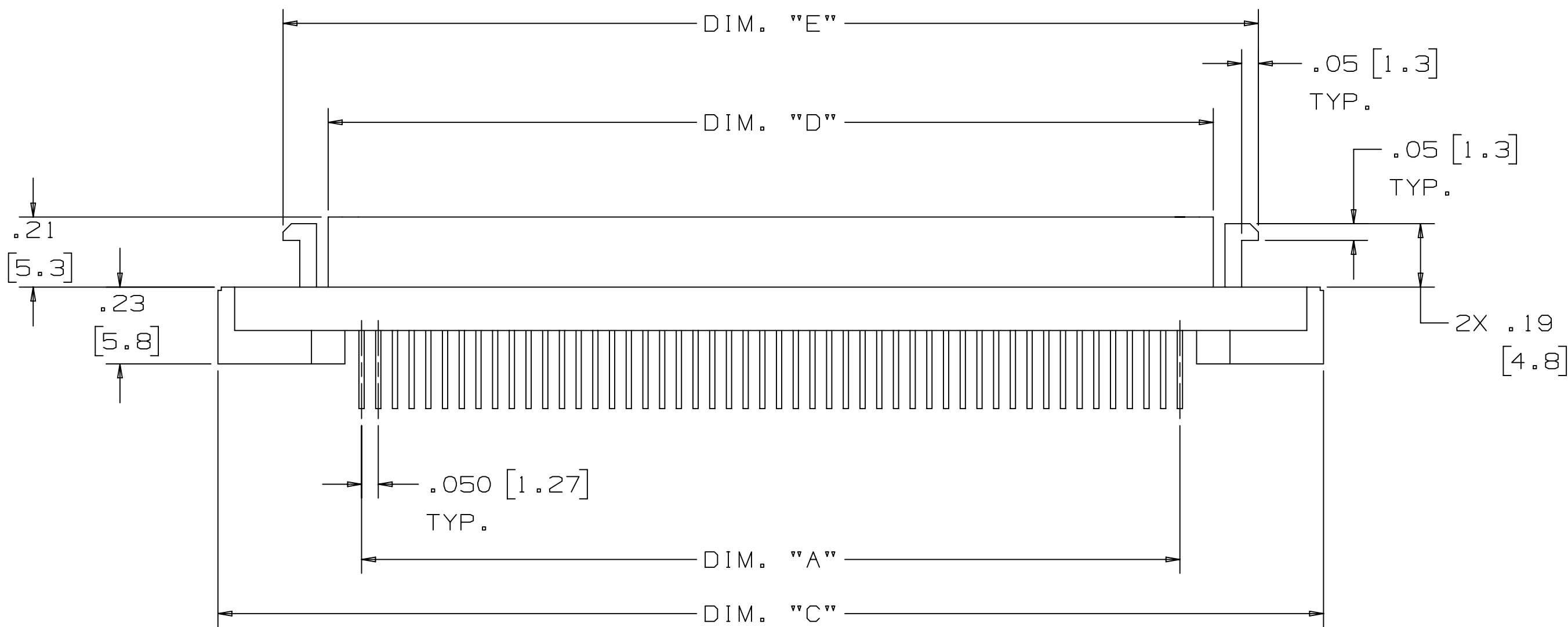
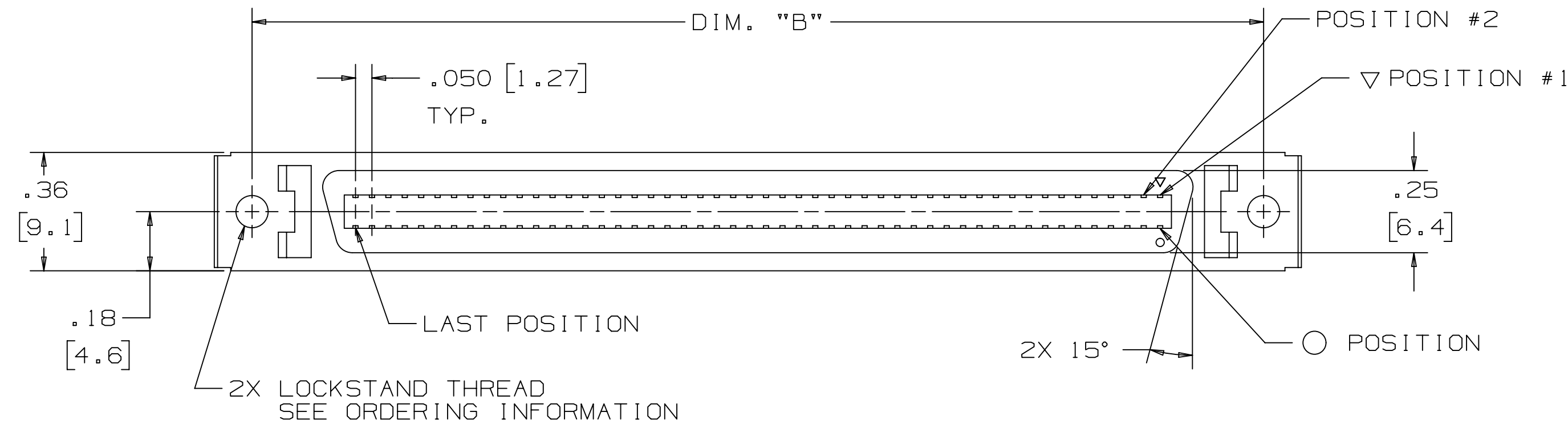
ORDERING INFORMATION

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

cUL[®]us
UL FILE NO: E68080

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

TABLE 1					
CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
14	.300 [7.62]	.93 [23.6]	1.16 [29.5]	.50 [12.6]	.77 [19.5]
20	.450 [11.43]	1.08 [27.5]	1.31 [33.4]	.65 [16.4]	.92 [23.4]
26	.600 [15.24]	1.23 [31.3]	1.46 [37.2]	.80 [20.2]	1.07 [27.2]
36	.850 [21.59]	1.48 [37.6]	1.71 [43.5]	1.05 [26.6]	1.32 [33.5]
40	.950 [24.13]	1.58 [40.2]	1.81 [46.1]	1.15 [29.1]	1.42 [36.1]
50	1.200 [30.48]	1.83 [46.5]	2.06 [52.4]	1.40 [35.5]	1.67 [42.4]
68	1.650 [41.91]	2.28 [57.9]	2.51 [63.8]	1.85 [46.9]	2.12 [53.8]
80	1.950 [49.53]	2.58 [65.6]	2.81 [71.5]	2.15 [54.5]	2.42 [61.5]
100	2.540 [62.23]	3.08 [78.3]	3.31 [84.2]	2.65 [67.2]	2.92 [74.2]



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DESIGN REFERENCE		NEXT ASSEMBLY	
XXXXXX	XXXXXX	XXXXXX	XXXXXX
DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING		DEPP	
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED	
INTERPRET PER ASME Y14.5 - 2018		INCHES 0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002	
MAX. SURFACE ROUGHNESS ALL SURFACES MARKED ONLY		MILLIMETERS 0 ± .0 ± .00 ± .000 ±	
3M		3M Center St. Paul, MN 55144	
TITLE		MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE	
CAGE NUMBER		DRAWING NO. D78-5100-0427-4	
MODEL		REV. D	
102		SHT 2 OF 4	

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

TABLE 2		
CONTACT QTY.	DIM. "A"	DIM. "B"
20	.450 [11.43]	1.081 [27.45]
36	.850 [21.59]	1.481 [37.61]
40	.950 [24.13]	1.581 [40.15]
68	1.650 [41.91]	2.281 [57.93]
80	1.950 [49.53]	2.581 [65.55]
100	2.450 [62.23]	3.081 [78.25]

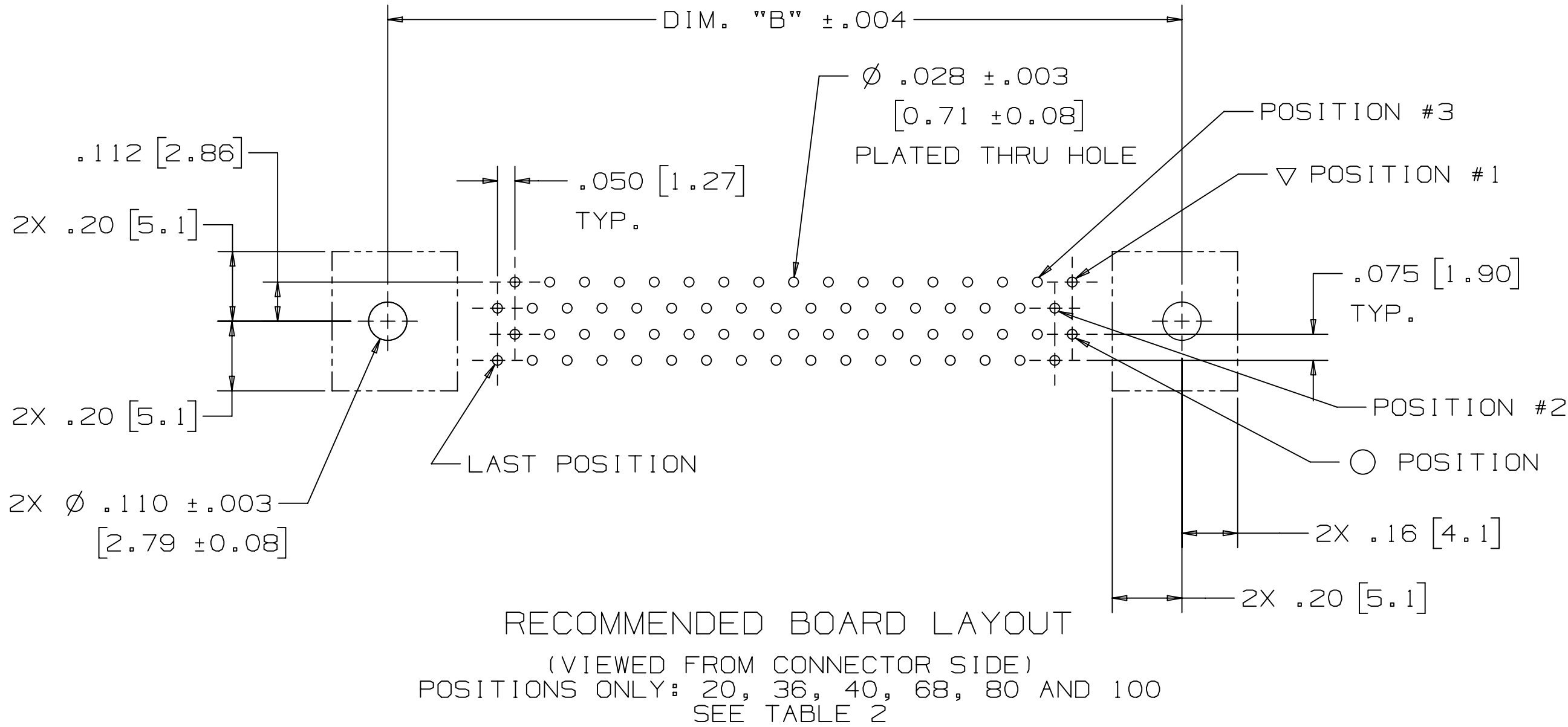


TABLE 3		
CONTACT QTY.	DIM. "A"	DIM. "B"
14	.300 [7.62]	.931 [23.64]
26	.600 [15.24]	1.231 [31.26]
50	1.200 [30.48]	1.831 [46.50]

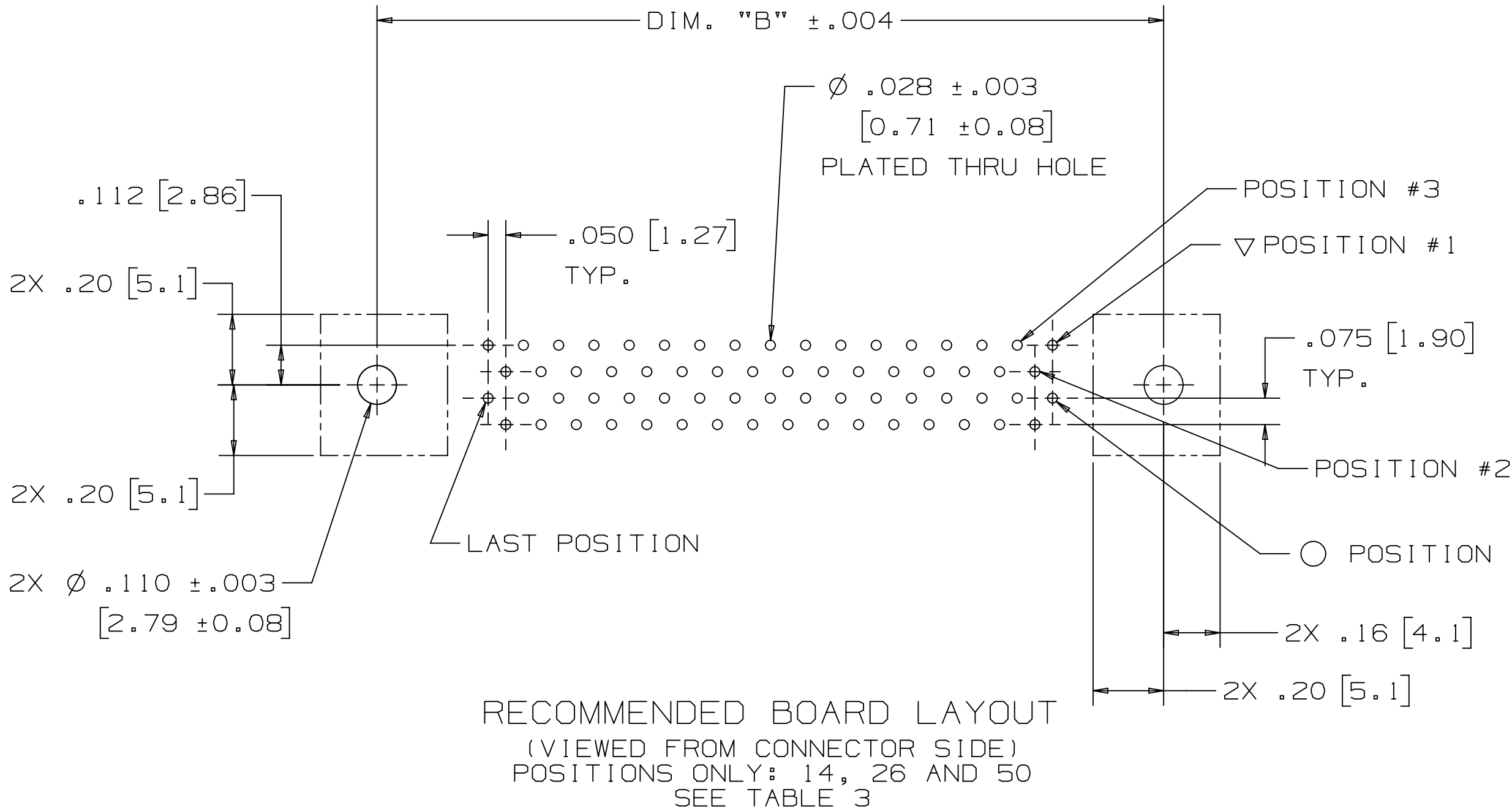
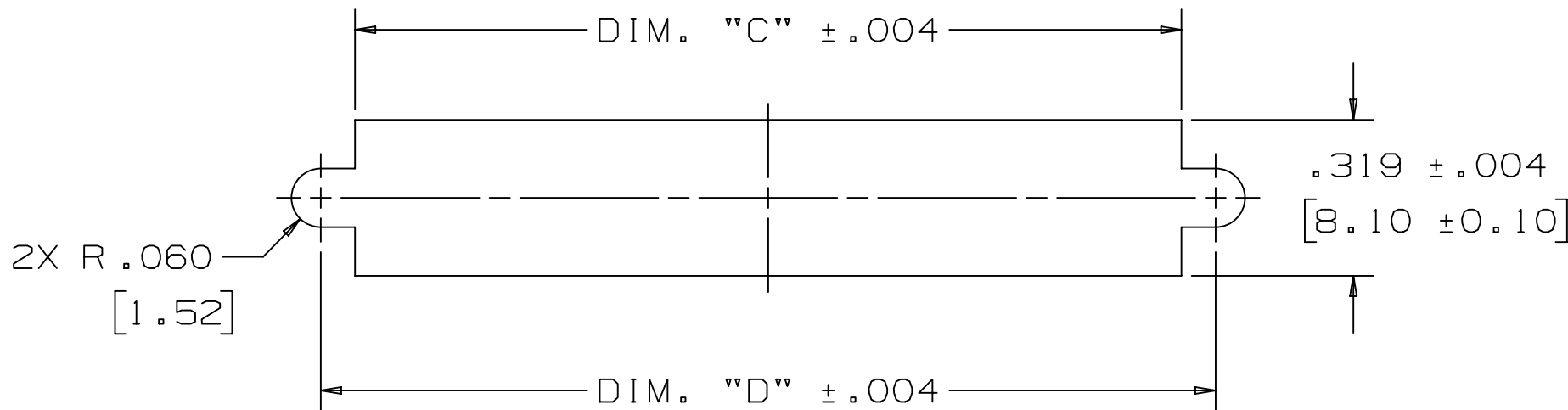


TABLE 4		
CONTACT QTY.	DIM. "C"	DIM. "D"
14	.78 [20.0]	.93 [23.64]
20	.94 [23.8]	1.08 [27.45]
26	1.09 [27.6]	1.23 [31.26]
36	1.33 [33.9]	1.48 [37.61]
40	1.44 [36.5]	1.58 [40.15]
50	1.69 [42.8]	1.83 [46.50]
68	2.13 [54.2]	2.28 [57.93]
80	2.44 [61.9]	2.58 [65.55]
100	2.94 [74.6]	3.08 [78.25]



RECOMMENDED PANEL CUT-OUT
NOTE: PANEL THICKNESS: .079 [2.00] MAX.
SEE TABLE 4

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NOTES	
1.	RECOMMENDED PC BOARD THICKNESS OF .062".

DESIGN REFERENCE		NEXT ASSEMBLY	
DESIGN CODES		DIVISION CODE	DEPP
DIVISION		TOLERANCES EXCEPT AS NOTED	
DO NOT SCALE DRAWING		INCHES	.0 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0002
THIRD ANGLE PROJECTION		MILLIMETERS	0 ± .0 ± .00 ± .000 ±
MAX. SURFACE ROUGHNESS		ALL SURFACES	0.00 ±
MARKED ONLY		ANGLES	±
CAGE NUMBER		SIZE	DRAWING NO.
D		102	78-5100-0427-4
MODEL		LISTS	YES NO
		SHT	3 OF 4

D	123358	JUN 03,2025	JNC	FJR
C	105842	REVISION 1 50P JUL 13,2022 REDRAWN REVISE TEMP RATING	JNC	FJR
B	16859	NOV 26,2022 REMOVE NON-ROHS	BAC	ARM
A	16859	MAR 05,2007 PRODUCTION RELEASE	BAC	DFC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CASTIGLIONE	DATE JUL 13,2022	DATE	DATE
CHKD		DATE	APPRV	DATE
			F. RODRIGUEZ	JUL 13,2022

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TITLE		MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE	
CAGE NUMBER		DRAWING NO.	
D		78-5100-0427-4	
MODEL		LISTS	
		YES NO	
		SHT 3 OF 4	

3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES

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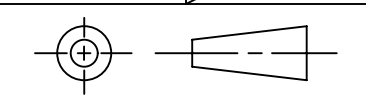
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Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

D		123598	JUN 03,2025	JNC	FJR
C		105842	JUL 13,2022	JNC	FJR
B		16859	NOV 26,2022	BAC	ARM
A		16859	MAR 05,2007	BAC	DFC
			PRODUCTION RELEASE		
REV		ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DFT		CAS TIGLIONE	DATE JUL 13,2022	WFG	DATE
CHKD			DATE	APPR F. RODRIGUEZ	DATE JUL 13,2022
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DO NOT SCALE DRAWING		SCALE	 3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED			
		INCHES .00 ±.01 .000 ±.005 .0000 ±.0002	TITLE MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE		
INTERPRET PER ASME Y14.5 - 2018 MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☒ MARKED ONLY		MILLIMETERS 0 ± .0 ± .000 ± .000 ±			
		ANGLES ±	CAGE NUMBER SIZE D 78-5100-0427-4	REV.	D
			MODEL 102	DET. LISTS	YES ☒ NO ☐
				SHT	4 OF 4

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