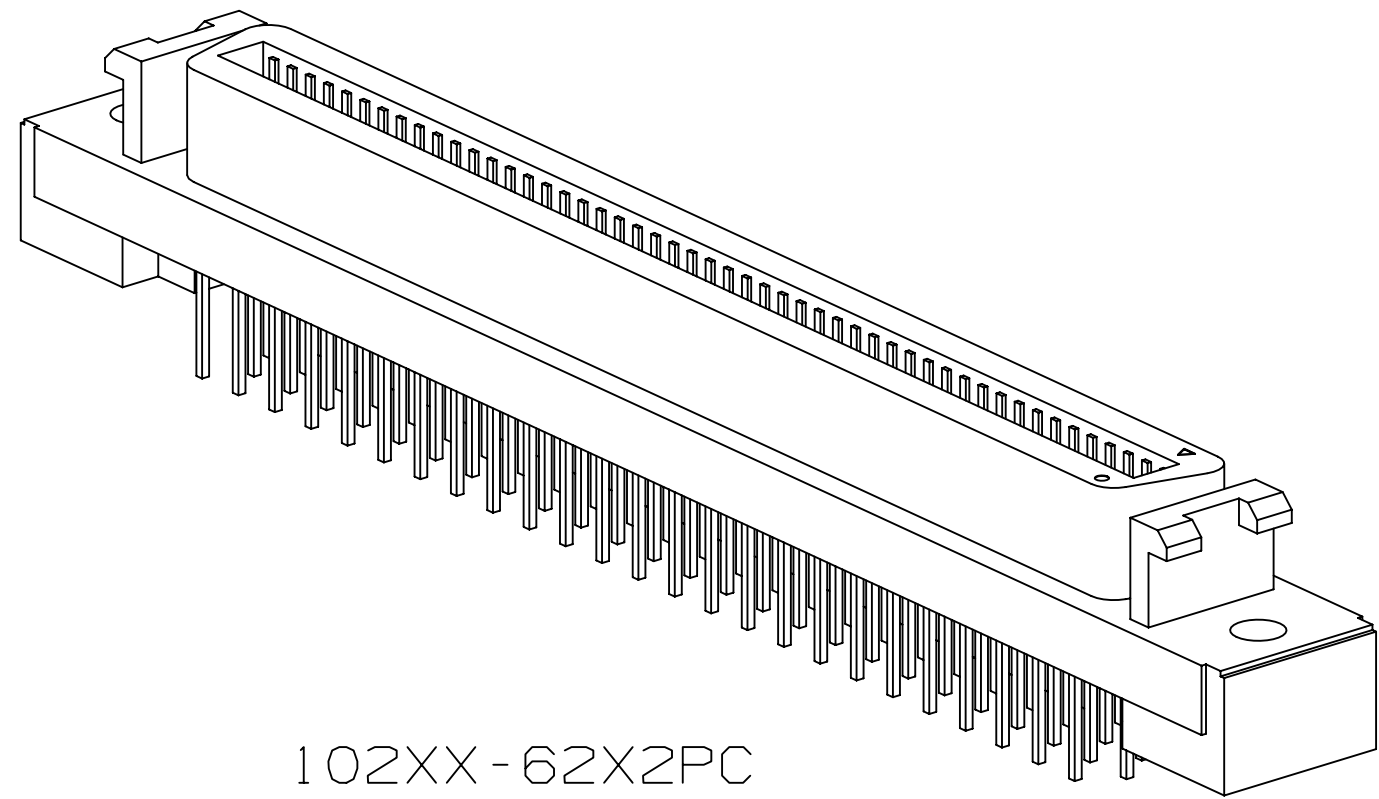




THE DATASHEET OF 10250-6202PL

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



102XX-62X2PC

2 PHYSICAL :

INSULATOR:
MATERIAL: GLASS FILLED POLYESTER (PBT) OR
GLASS FILLED POLYESTER (PCT) -
HIGH TEMP OPTION - SEE ORDERING INFORMATION
FLAMMABILITY: UL94V-0
COLOR: BLACK (PBT) OR BEIGE (PCT) - HIGH TMP - SEE ORDERING INFO.
CONTACT:
MATERIAL: COPPER ALLOY
PLATING:
UNDER PLATING: 100μ" [2.54μm] AVG. NICKEL-OVERALL
WIPING AREA: 30μ" [0.76μm] MIN. GOLD
SOLDER TAILS: GOLD FLASH OVER NICKEL
BODY:
MATERIAL: ZINC ALLOY
PLATING: NICKEL
SHROUD & LATCH HOOK:
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: -55°C TO +85°C
PBT INSULATOR PROCESS RATING: SOLDER DIP TEST -260°C FOR 10 SEC.,
2 TIMES AFTER 100°C MAX. PREHEAT, 60 SEC.
MAX. DURATION.
PCT INSULATOR PROCESS RATING: HIGH TEMP. OPTION: 260°C (PROFILE PER J-STD-020C)

ORDERING INFORMATION

X 102XX-62X2PC

BLANK = STAND, PBT INSULATOR
N = HIGH TEMP. OPTION, PCT INSULATOR

CONTACT QTY.
A0 = 100 POS.
(SEE TABLE)

LOCKSTAND THREAD
0 = M2.6 (SPECIAL)
1 = M2.5 (STANDARD)

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UL
UL FILE NO: E68080

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.

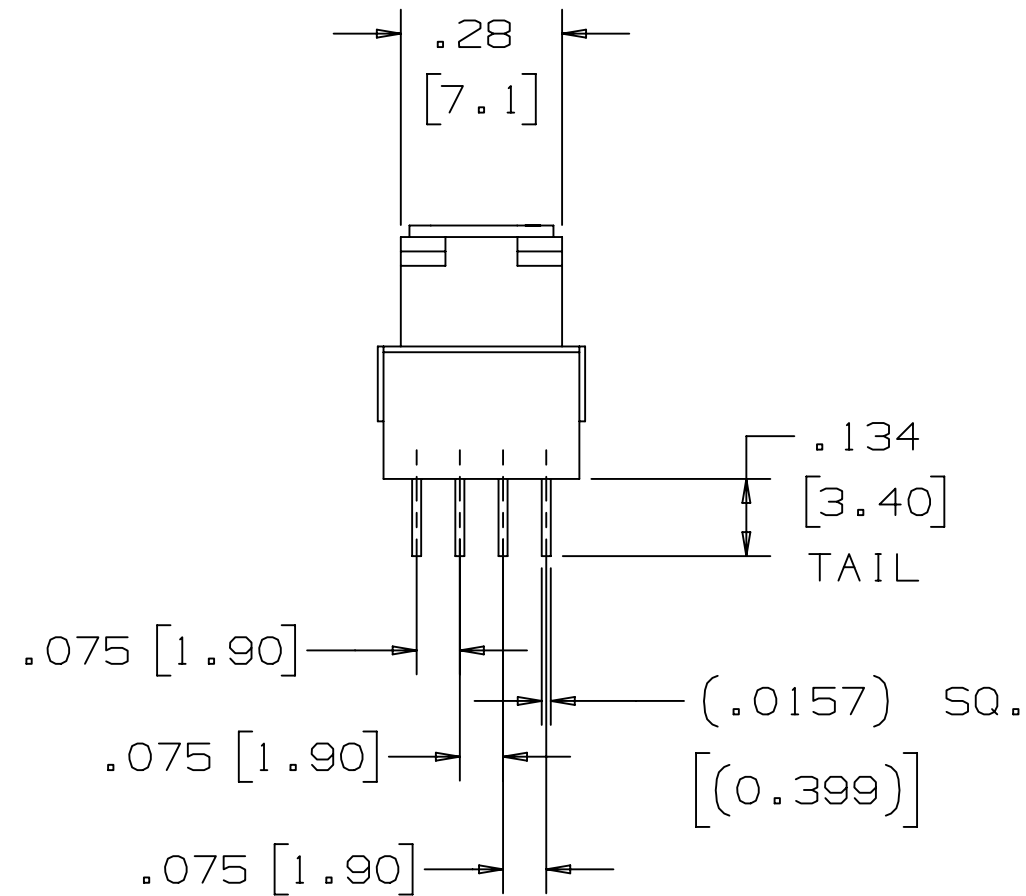
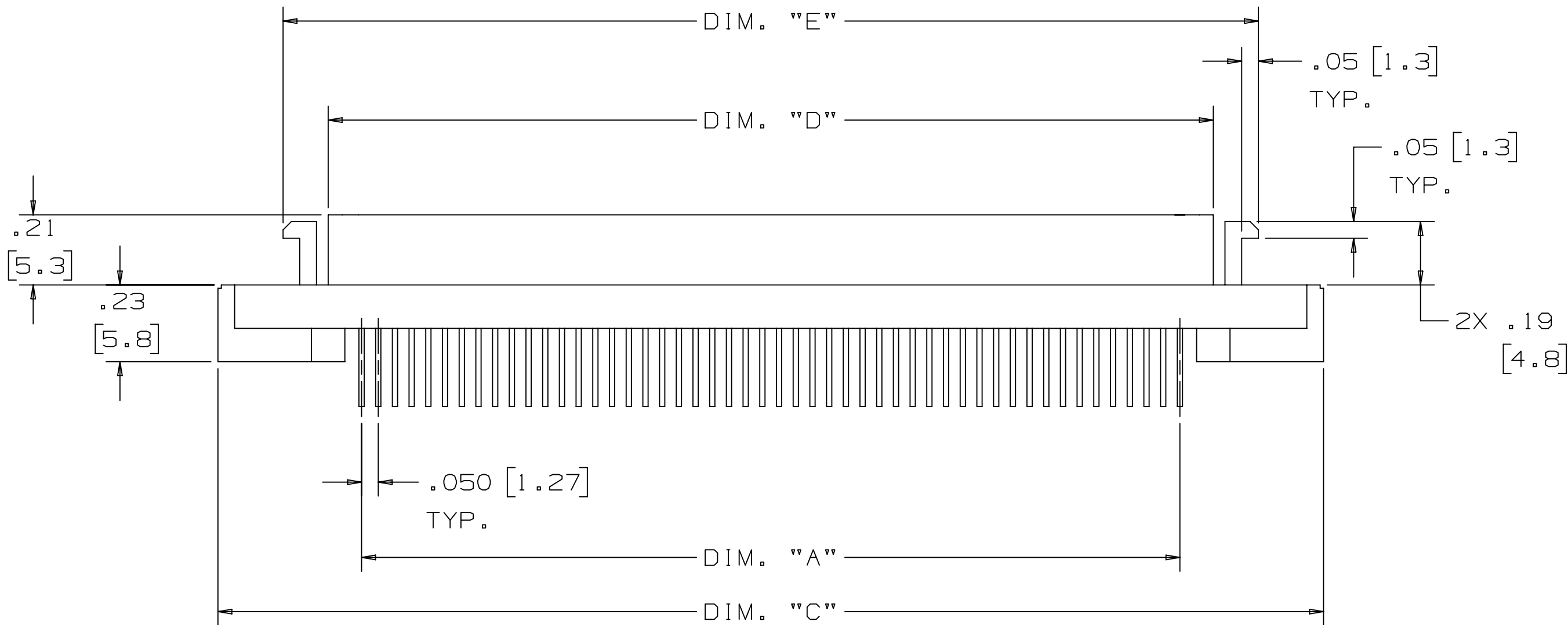
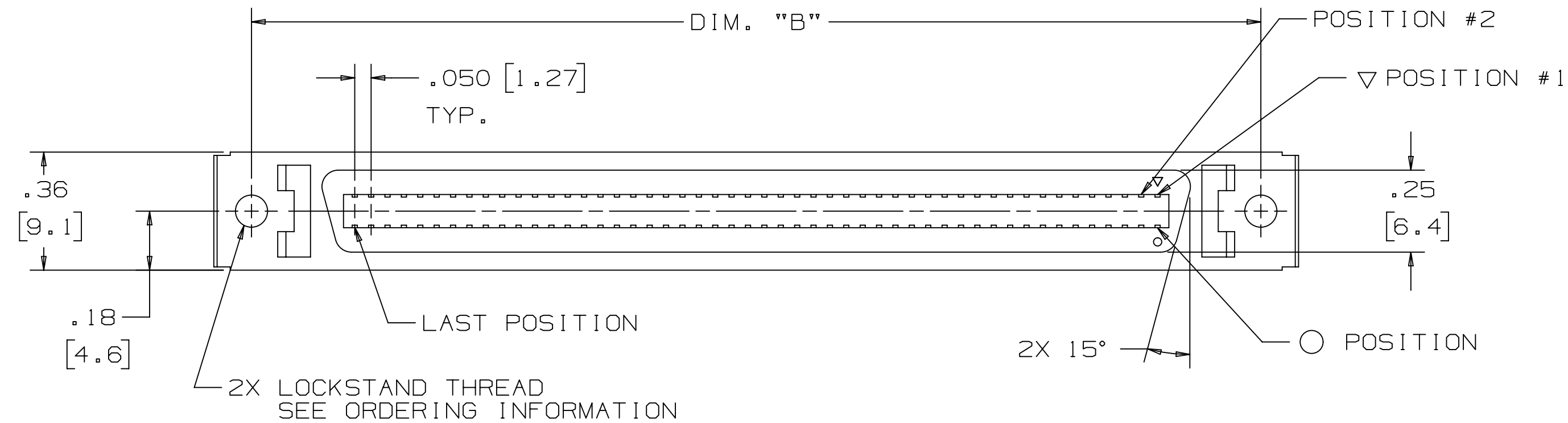
DIMENSIONS: INCHES [MM]
[MM] IS FOR REF. ONLY

DESIGN REFERENCE		NEXT ASSEMBLY	
XREF CODES		DIVISION CODE	
DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING		SCALE 3 1	
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	
MAX. SURFACE ROUGHNESS		ANGLES	
ALL SURFACES MARKED ONLY			
CAGE NUMBER		DRAWING NO.	
MODEL		REV.	
102		D 78-5100-0427-4 C	
LISTS		YES NO SHT 1 OF 4	

C	105842	JUL 13,2022	JNC	FJR
B	16859	NOV 26,2022	BAC	ARM
A	16859	MAR 05,2007	BAC	DFC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CAS	IGL	ONE	
CHKD		DATE	DATE	DATE
		JUL 13,2022	JUL 13,2022	JUL 13,2022
APPR. F. RODRIGUEZ				
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MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE				

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]	3.06 [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	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXXX	XXXXXX	DRFT	C	CASTIGLIONE	DATE	DATE
XXXXXX	XXXXXX	CHKD	XXXXXX	DATE	DATE	DATE
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2022				
DO NOT SCALE DRAWING	SCALE 3/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES .00 ±.01 .000 ±.005 .0000 ±.0002				
MAX. SURFACE ROUGHNESS	ALL SURFACES	MILLIMETERS 0 ±.00 .000 ±.000				
MARKED ONLY	ANGLES	CAGE NUMBER D78-5100-0427-4				
		MODEL 102		LISTS YES NO SHT 2 OF 4		

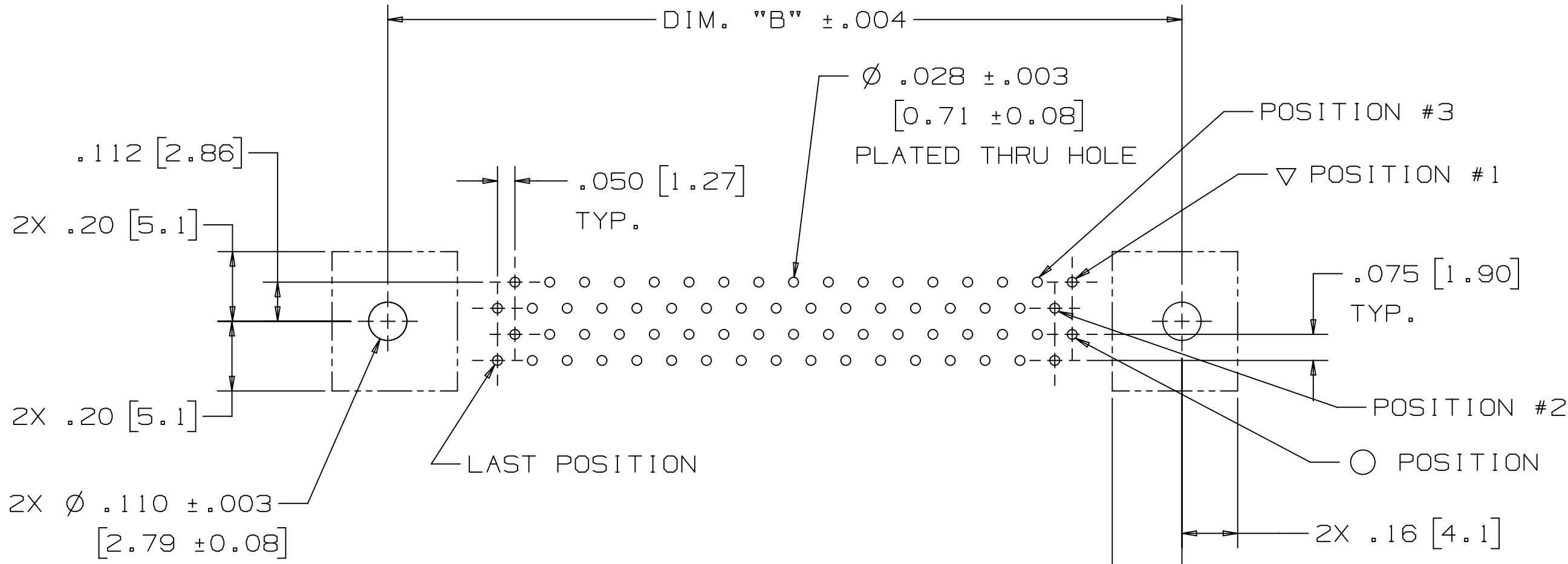
C	105842	JUL 13,2022	JNC	FJR
B	16859	NOV 26,2022	BAC	ARM
A	16859	MAR 05,2007	BAC	DFC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	C	CASTIGLIONE	DATE	DATE
CHKD	XXXXXX	DATE	DATE	DATE

3M Center St. Paul, MN 55144

MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE

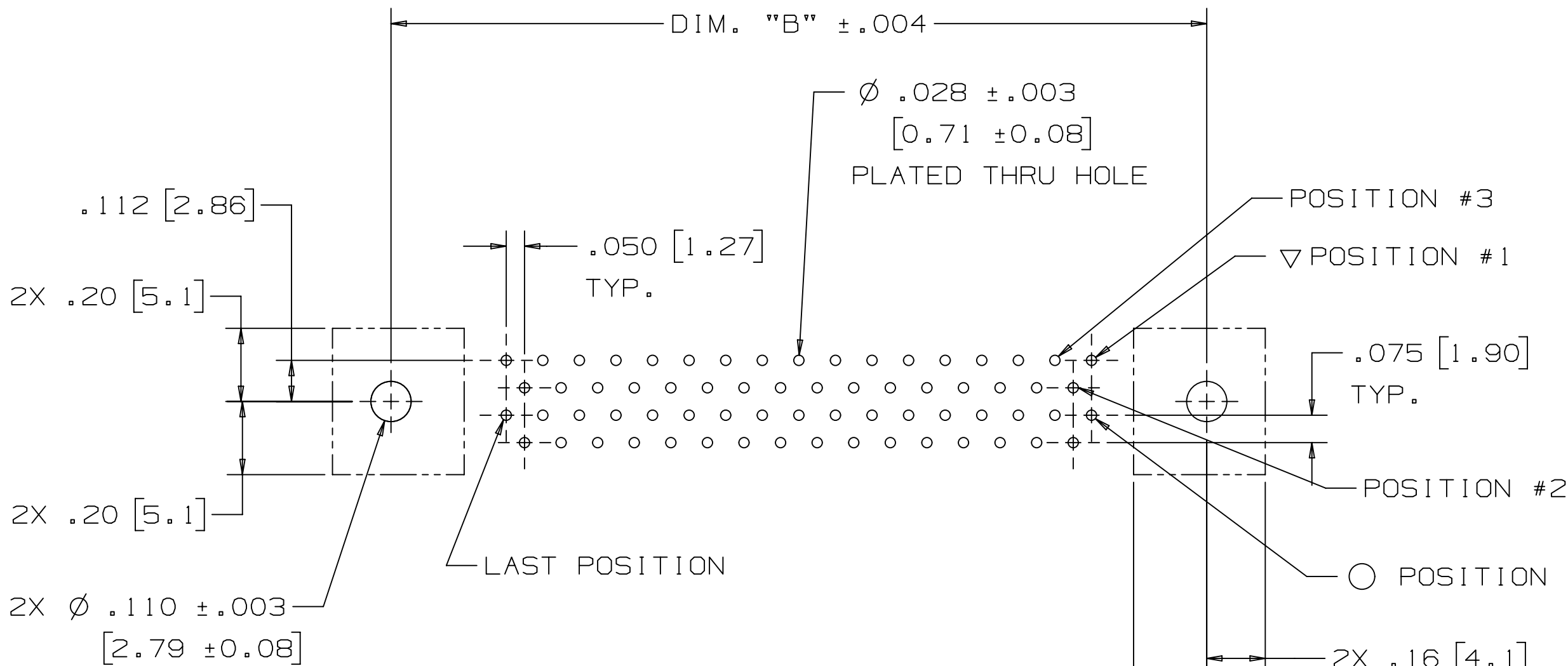
3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
.050" BOARDMOUNT THROUGH-HOLE VERTICAL RECEPTACLE - SHIELDED

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]



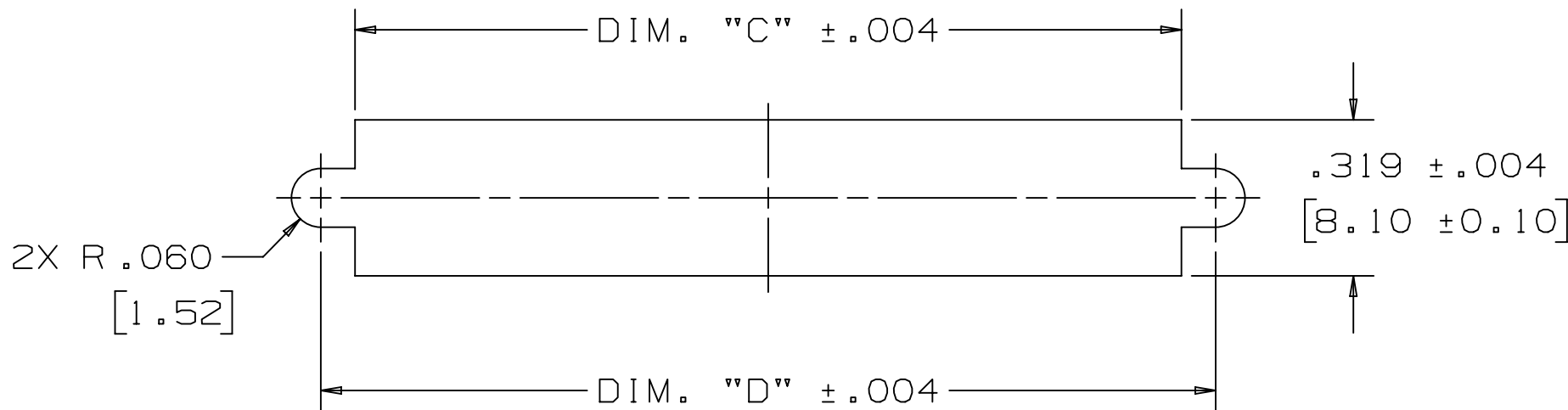
RECOMMENDED BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)
POSITIONS ONLY: 20, 36, 40, 68, 80 AND 100
SEE TABLE 2

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]



RECOMMENDED BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)
POSITIONS ONLY: 14, 26 AND 50
SEE TABLE 3

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		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XXXXXX	XXXXXX	XXXXXX	XXXXXX	DRFT	CASTIGLIONE	DATE	JUL 13, 2022	MFR	DATE
XXXXXX	XXXXXX	XXXXXX	XXXXXX	CHKD	XXXXXX	DATE	JUL 13, 2022	APPR	DATE
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2022					
DO NOT SCALE DRAWING		SCALE 3/1		TOLERANCES EXCEPT AS NOTED					
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		INCHES .00 ±.01 .000 ±.005 .0000 ±.0002					
MAX. SURFACE ROUGHNESS		ALL SURFACES		MILLIMETERS 0 ±.00 ±.000					
MARKED ONLY		ANGLES		CAGE NUMBER D78-5100-0427-4					
MODEL		SIZE		DRAWING NO.		REV.		C	
102		1		D78-5100-0427-4		C		SHT 3 OF 4	

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

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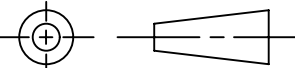
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C		105842	JUL 13, 2022		JNC	FJR
B		16859	REDRAWN REVISE TEMP RATING		BAC	ARM
A		16859	NOV 26, 2022 REMOVE NON-ROHS MAR 05, 2007 PRODUCTION RELEASE		BAC	DFC
REV		ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES		DFT CAST		IGT	ONE	
DIVISION		DATE		JUL 13, 2022	APPR	DATE
		CHKD		DATE	APPR	DATE
				F. RODRIGUEZ	JUL 13, 2022	
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		
		4		INCHES		
		1		THIRD ANGLE PROJECTION		
		.00 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002		MILLIMETERS .0 .0 .00 .000		
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS		SIZE		
☒ ALL SURFACES ☐ MARKED ONLY		☒ ALL SURFACES ☐ MARKED ONLY		D78-5100-0427-4		
		☒ ALL SURFACES ☐ MARKED ONLY		102		
		☒ ALL SURFACES ☐ MARKED ONLY		DET. LISTS ☐ YES ☒ NO		
		☒ ALL SURFACES ☐ MARKED ONLY		SHT 4 OF 4		

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