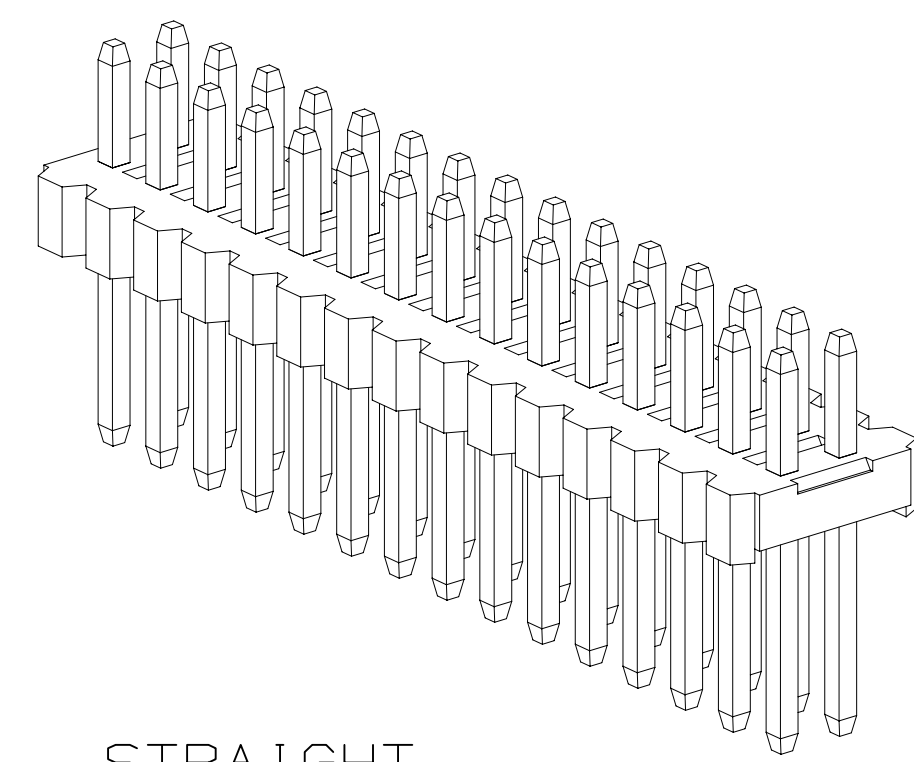
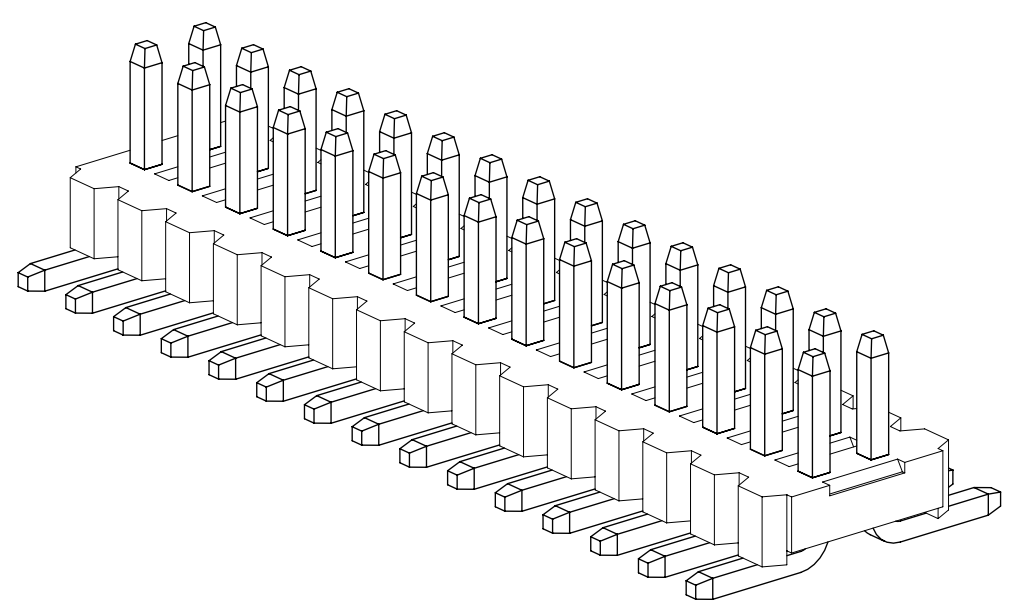


3M™ PIN STRIP HEADER, .039" [ 1.00MM ], 9X9 SERIES  
 DUAL ROW, DIP STRAIGHT, SURFACE MOUNT

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.



STRAIGHT  
 VERSION  
 959 SERIES



SURFACE MOUNT  
 VERSION  
 949 SERIES

2. PHYSICAL :  
 INSULATOR :  
 MATERIAL : PA9T  
 FLAMMABILITY : UL94V-0  
 COLOR : BLACK  
 CONTACT :  
 MATERIAL : COPPER ALLOY  
 PLATING :  
 UNDER PLATING : 1.27µm ( 50µ" ) AVG. NICKEL-OVERALL  
 WIPING AREA : GOLD FLASH  
 SOLDER TAILS : GOLD FLASH

2. ELECTRICAL :  
 CURRENT RATING : 1A, ALL LINES  
 CONTACT RESISTANCE : ≤20mΩ, Δ<=20m Ohm  
 INSULATION RESISTANCE : ≥1000MΩ  
 WITHSTANDING VOLTAGE : 500Vr.m.s., 1mA, 60s

2. MECHANICAL :  
 EXTRACTION FORCE : ≥1.5N/PIN ( BEFORE SOLDER )

2. ENVIRONMENTAL :  
 WORKING TEMP : -55° C TO +125° C  
 HUMIDITY : ≤93% AT 40° C  
 STRAIGHT HEADER :  
 RESISTANCE TO SOLDERING HEAT : 265° C±5° C, 10s ( PER J-STD-020C )  
 SURFACE MOUNT HEADER :  
 RESISTANCE TO SOLDERING HEAT : 260° C, 30s ( PER J-STD-020C )

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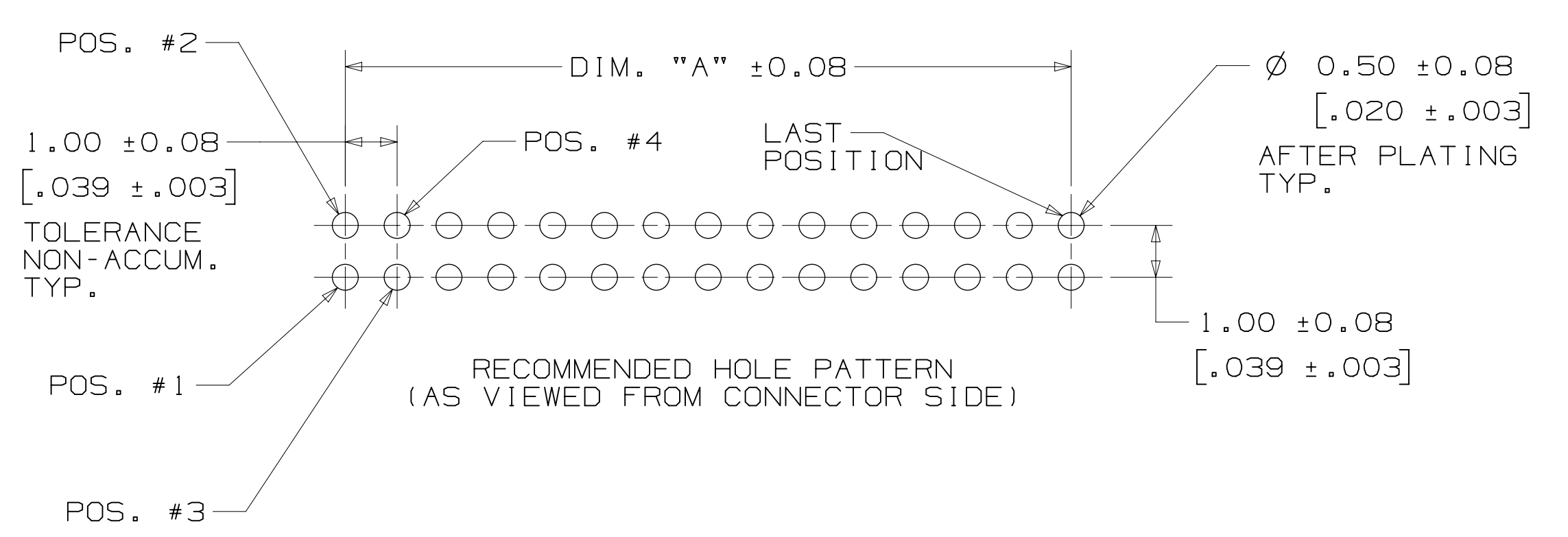
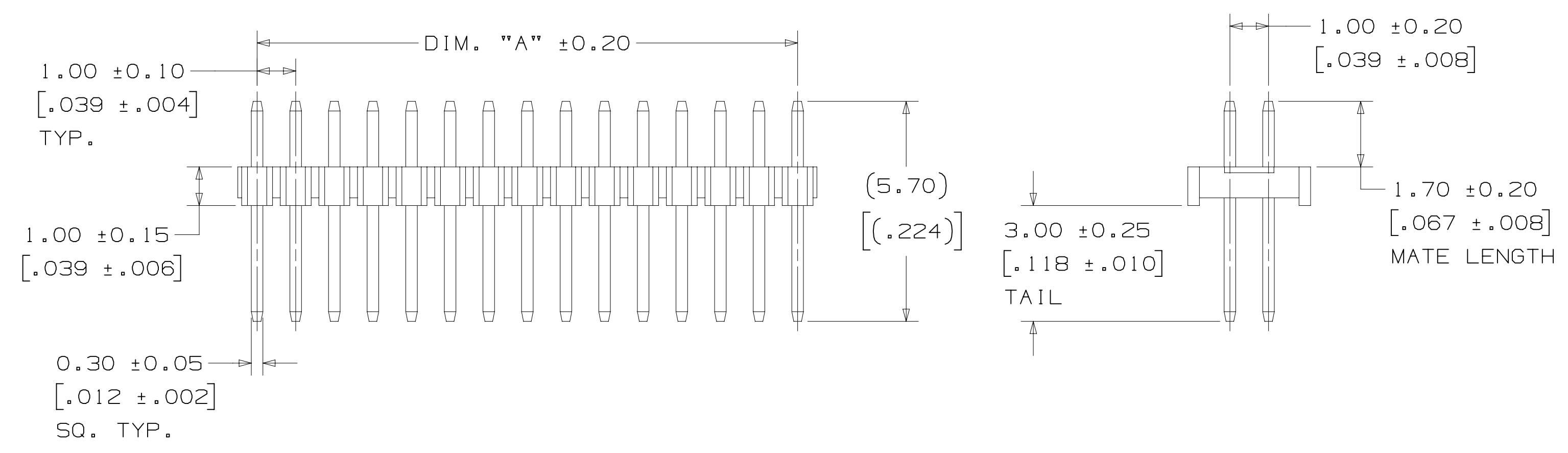
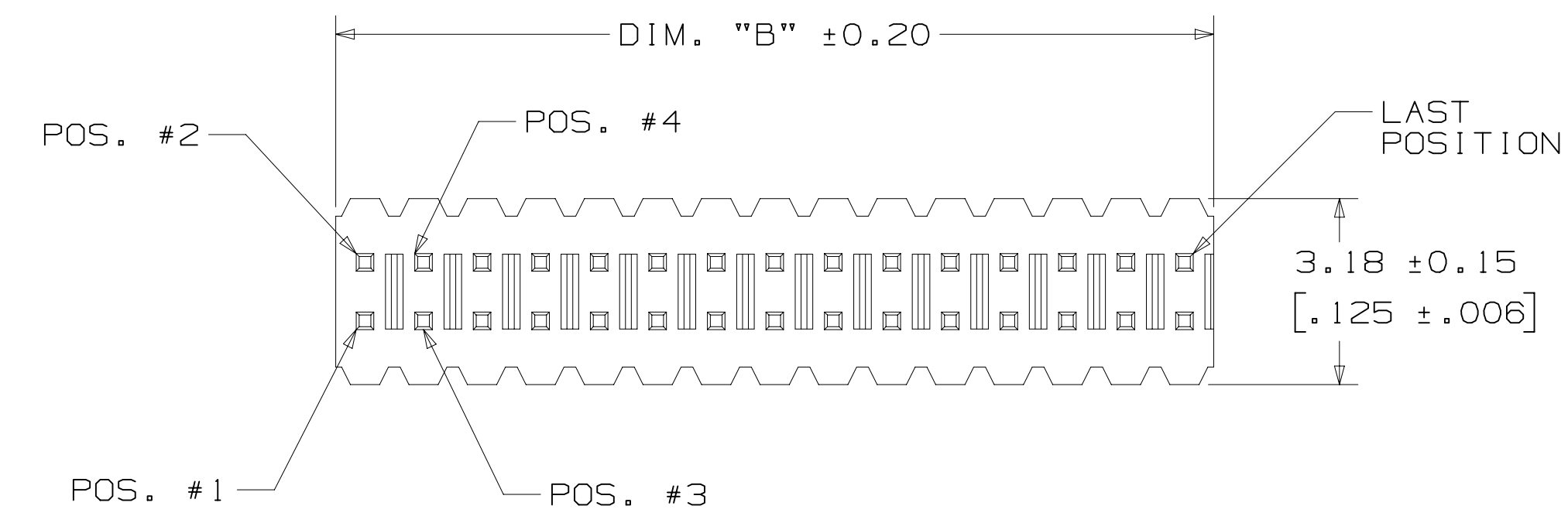
DIMENSIONS: MM [ INCHES ]  
 [ INCHES ] IS FOR REF. ONLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	115072	APR 05, 2024 PRODUCTION RELEASE	JNC	EST
DESIGN REFERENCE	NEXT ASSEMBLY	DIVISION CODE EMSD		
DRG CODES	DRG CODES	DATE	DATE	DATE
		CASTIGLIONE	MAR 15, 2024	MFG
		S. OWEN	APR 05, 2024	ENG SENG TEH
			APR 05, 2024	
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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ± 2	TITLE PIN STRIP HDR, STR AND SMT DUAL ROW, 1MM .039"	
MAX SURFACE ROUGHNESS	DT SURFACES	0 ± .5	CAGE NUMBER D 78-5100-2803-4	
MARKED ONLY	ANGLES	.00 ± 0.13	DRAWING NO. 78-5100-2803-4	
		.000 ± .005	REV. A	
			MODEL DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 1 OF 4	

78-5100-2803-4  
 DRAWING NUMBER

3M™ PIN STRIP HEADER, .039" [ 1.00MM ], 9X9 SERIES  
 DUAL ROW, DIP STRAIGHT, SURFACE MOUNT

TABLE 1		
CONTACT QTY.	DIM. "A"	DIM. "B"
06	2.00 [ .079 ]	3.00 [ .118 ]
08	3.00 [ .118 ]	4.00 [ .157 ]
10	4.00 [ .157 ]	5.00 [ .197 ]
16	7.00 [ .276 ]	8.00 [ .315 ]
20	9.00 [ .354 ]	10.00 [ .394 ]
22	10.00 [ .394 ]	11.00 [ .433 ]
26	12.00 [ .472 ]	13.00 [ .512 ]
30	14.00 [ .551 ]	15.00 [ .591 ]
40	19.00 [ .748 ]	20.00 [ .787 ]
50	24.00 [ .945 ]	25.00 [ .984 ]
60	29.00 [ 1.142 ]	30.00 [ 1.181 ]
80	39.00 [ 1.535 ]	40.00 [ 1.575 ]



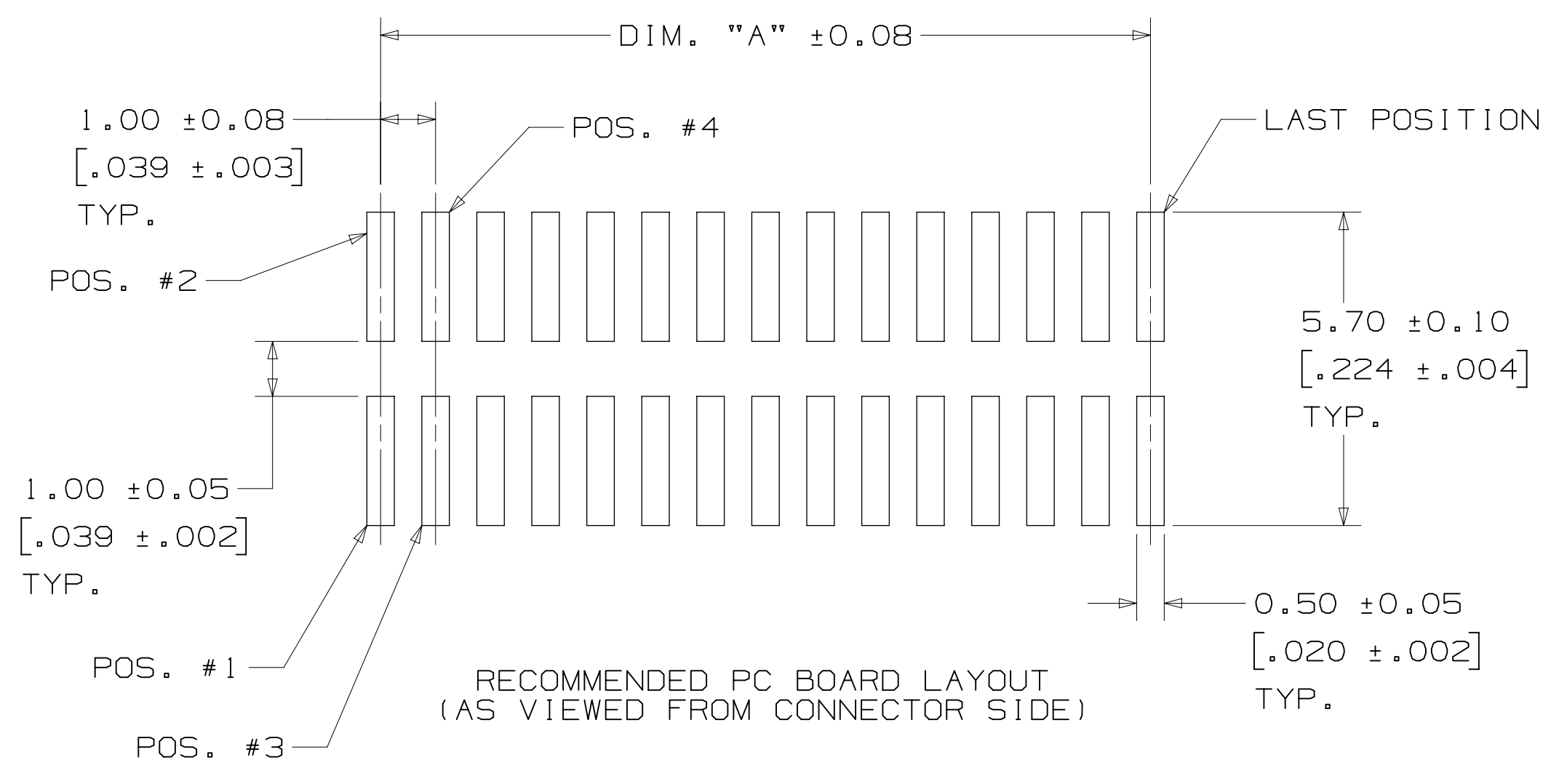
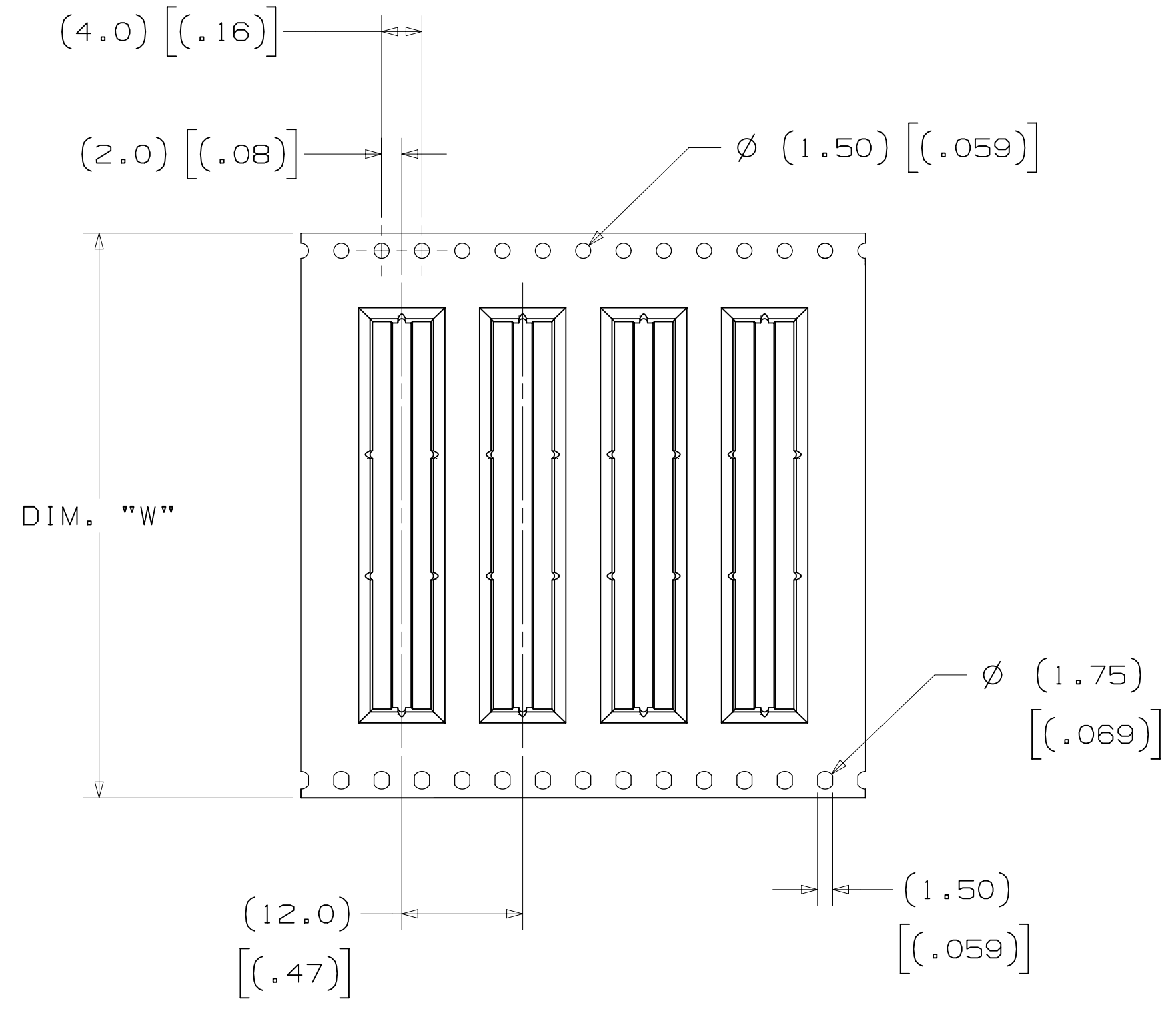
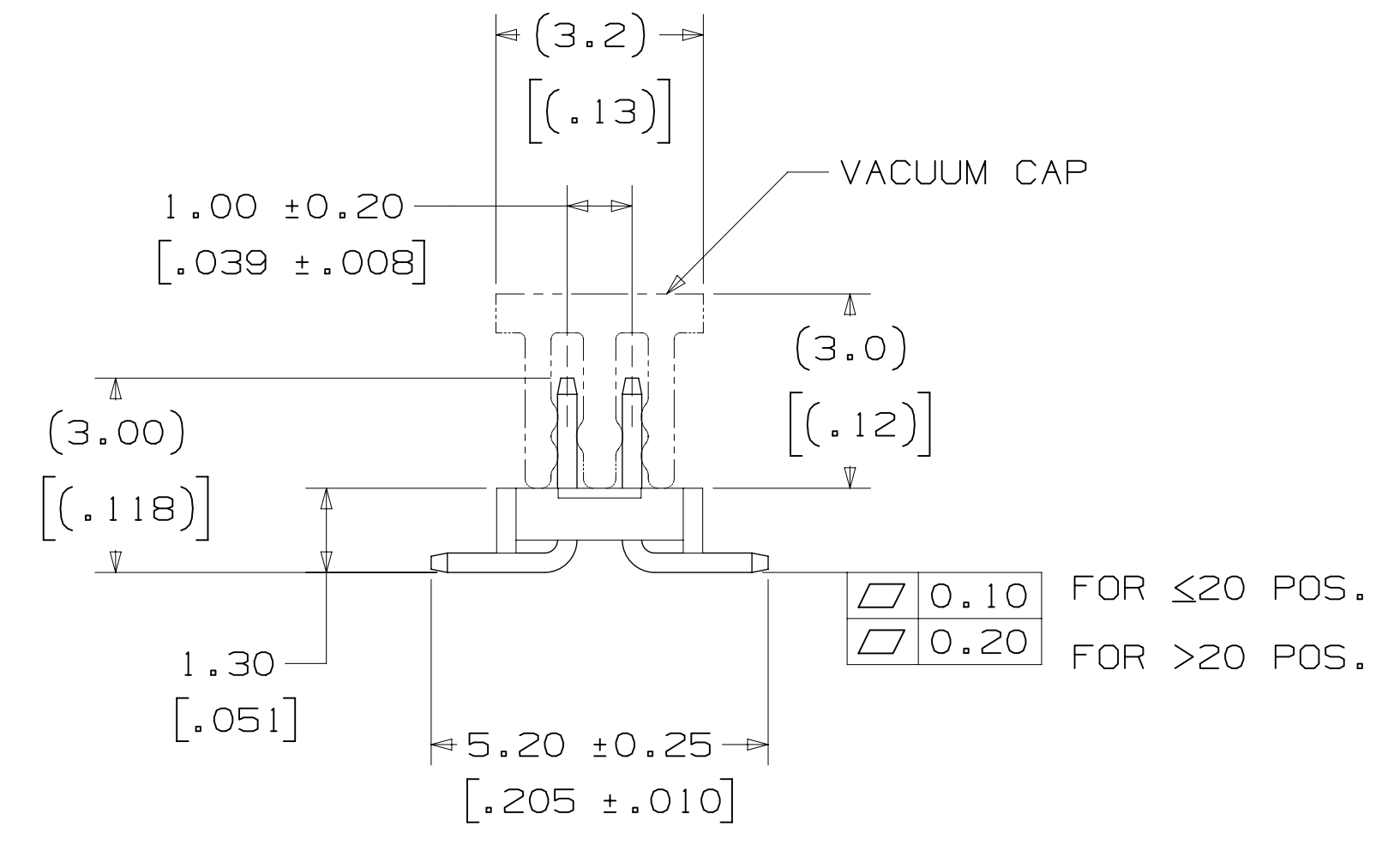
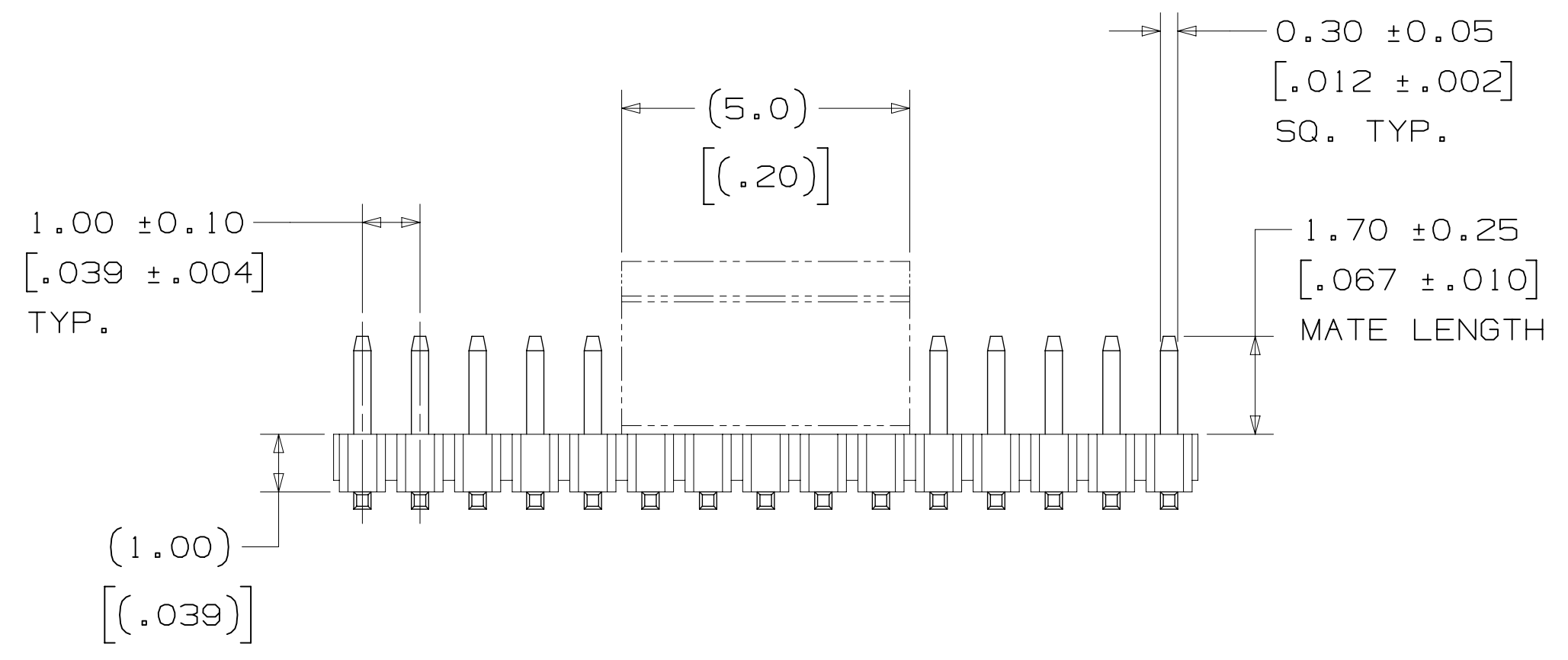
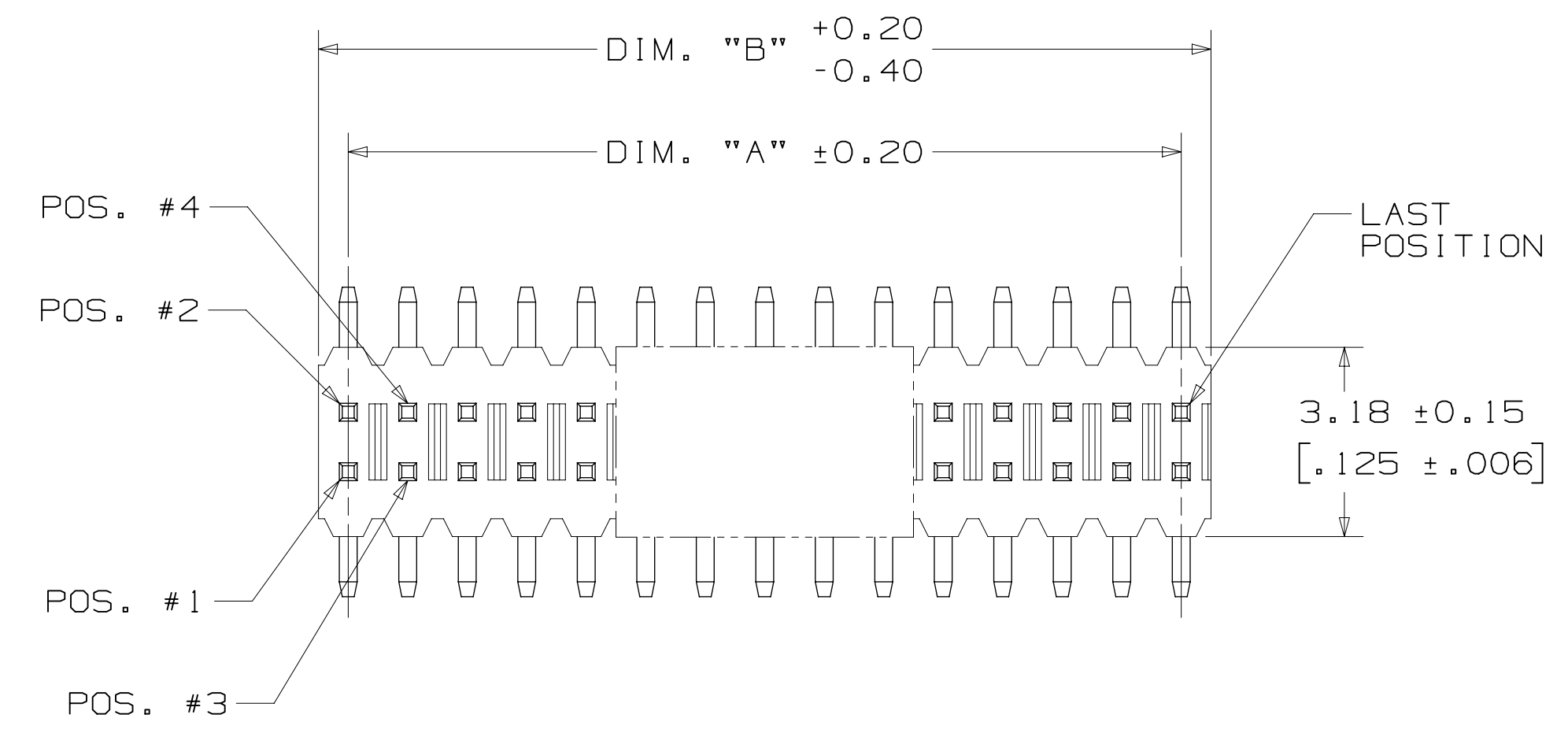
ORDERING INFORMATION  
 STRAIGHT VERSION  
 959XX - T000  
 NUMBER OF CONTACTS  
 (SEE TABLE 1)

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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				APR 05, 2024 PRODUCTION RELEASE	JNC	EST
APPROVED		DRG	CASTIGLIONE	DATE MAR 15, 2024	MFG	DATE
		CHKD	S. OWEN	DATE APR 05, 2024	APPV	ENG SENG TEH
				DATE APR 05, 2024		
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THIRD ANGLE PROJECTION		MILLIMETERS		0 ± .0 ±.5 .00 ±.13 .000 ±.005		
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS		SURFACES .000 ±.005		
MARKED ONLY		ANGLES		MODEL DET YES <input type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 4		
TITLE PIN STRIP HDR, STR AND SMT DUAL ROW, 1MM .039"		CAGE NUMBER D78-5100-2803-4		DRAWING NO. 78-5100-2803-4		REV. A

78-5100-2803-4  
DRAWING NUMBER

3M™ PIN STRIP HEADER, .039" [ 1.00MM ], 9X9 SERIES  
 DUAL ROW, DIP STRAIGHT, SURFACE MOUNT



ORDERING INFORMATION  
 SURFACE MOUNT VERSION  
 949XX-M000  
 NUMBER OF CONTACTS  
 (SEE TABLE 2)

CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "W"
06	2.00 [.079]	3.00 [.118]	16MM
08	3.00 [.118]	4.00 [.157]	16MM
10	4.00 [.157]	5.00 [.197]	16MM
16	7.00 [.276]	8.00 [.315]	24MM
20	9.00 [.354]	10.00 [.394]	24MM
22	10.00 [.394]	11.00 [.433]	24MM
26	12.00 [.472]	13.00 [.512]	24MM
30	14.00 [.551]	15.00 [.591]	24MM
40	19.00 [.748]	20.00 [.787]	32MM
50	24.00 [.945]	25.00 [.984]	44MM
60	29.00 [1.142]	30.00 [1.181]	44MM
80	39.00 [1.535]	40.00 [1.575]	56MM

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		DATE	DATE	DATE	DATE	DATE
		DRG	CASTIGLIONE	MFG		
		DATE	MAR 15, 2024	DATE		
		DRG	S. OWEN	APPV	ENG SENG TEH	DATE
		DATE	APR 05, 2024	DATE	APR 05, 2024	
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THIRD ANGLE PROJECTION		MILLIMETERS		0 ±.2 .00 ±.13 .000 ±.005		
INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS		SURFACES .000 ±.005 MARKED ONLY		
TITLE		CAGE NUMBER		DRAWING NO.		REV.
PIN STRIP HDR, STR AND SMT DUAL ROW, 1MM .039"		D78-5100-2803-4		A		
MODEL		LISTS		YES		NO
		SHT		3		OF 4

78-5100-2803-4  
DRAWING NUMBER

8 7 6 5 4 3 2 1  
**3M™ PIN STRIP HEADER, .039" [ 1.00MM ], 9X9 SERIES**  
 DUAL ROW, DIP STRAIGHT, SURFACE MOUNT

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		A	115072	APR 05, 2024 PRODUCTION RELEASE	JNC	EST
APPROVED	DWG CODES	DRW	DATE	MFG	DATE	
		CASTIGLIONE	MAR 15, 2024			
DIVISION	DIVISION CODE	DRKD	DATE	APPRV	DATE	
	EMSD	S. OWEN	APR 05, 2024	ENG SENG TEH	APR 05, 2024	
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THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED	INCHES .00 ± .000 ± .0000 ±				
INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	0 ± 2 .0 ± .5 .00 ± 0.13 .000 ± .005				
MAX SURFACE ROUGHNESS	ANGLES	CAGE NUMBER	SIZE	DRAWING NO.	REV.	
<input checked="" type="checkbox"/> MARKED ONLY		D	78-5100-2803-4	A		
				MODEL	DET	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> SHT 4 OF 4

78-5100-2803-4  
DRAWING NUMBER