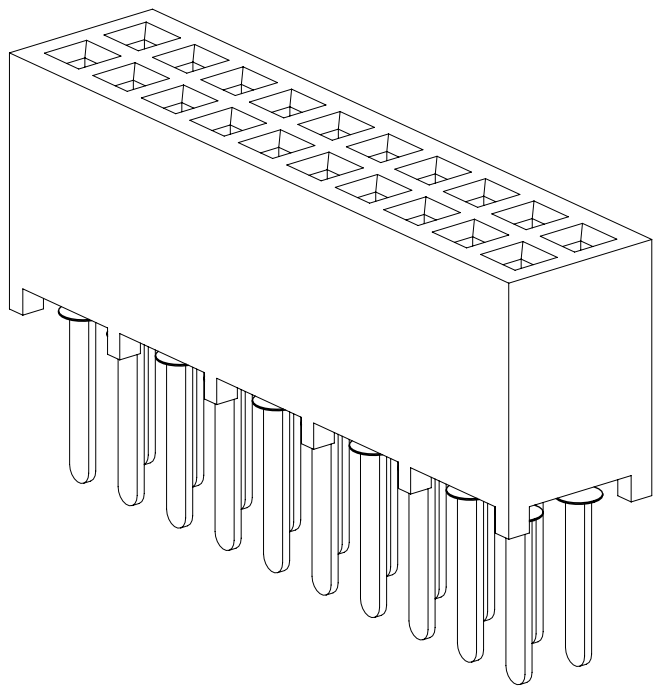
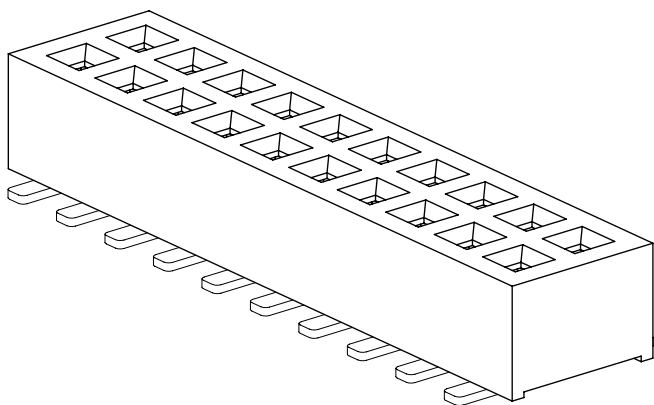


3M™ BOARDMOUNT SOCKET, .050" [ 1.27mm ], 9X9 SERIES  
DUAL ROW, STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



909 SERIES  
STRAIGHT  
VERSION



919 SERIES  
SURFACE MOUNT  
VERSION

- 2
- PHYSICAL :
- INSULATOR :
- MATERIAL : GLASS FILLED POLYESTER (LCP)
- FLAMMABILITY : UL94V-0
- COLOR : BLACK
- CONTACT :
- MATERIAL : COPPER ALLOY
- PLATING :
- UNDER PLATING : 1.27µm [ 50µ" ] AVG. NICKEL-OVERALL
- WIPING AREA : GOLD FLASH
- 909 SERIES :
- SOLDER TAILS : 5.08µm [ 200µ" ] MATTE TIN
- 919 SERIES :
- SOLDER TAILS : GOLD FLASH

- 2
- ELECTRICAL :
- CURRENT RATING : 1A
- CONTACT RESISTANCE : ≤20mΩ
- INSULATION RESISTANCE : ≥1000MΩ
- WITHSTANDING VOLTAGE : 500V AC, 1mA, 60s

- 2
- MECHANICAL :
- BOARDMOUNT STRAIGHT SOCKET :
- RETENTION FORCE : ≥3.43N/PIN
- INSERTION FORCE : ≤1.8N/PIN
- EXTRACTION FORCE : ≥0.2N/PIN
- MECHANICAL LIFE : 50 CYCLES

- SURFACE MOUNT SOCKET :
- INSERTION FORCE : ≤2N/PIN
- EXTRACTION FORCE : ≥0.3N/PIN
- MECHANICAL LIFE : 50 CYCLES

- 2
- ENVIRONMENTAL :
- BOARDMOUNT STRAIGHT SOCKET :
- WORKING TEMP : -40°C TO +105°C
- HUMIDITY : ≤93% AT 40°C
- RESISTANCE TO SOLDERING HEAT : 260°C, 30s
- SURFACE MOUNT SOCKET :
- WORKING TEMP : -55°C TO +125°C
- HUMIDITY : ≤93% AT 40°C
- RESISTANCE TO SOLDERING HEAT : 260°C, 10s

- 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.
3. FOR PACKAGING SPECIFICATION,  
TAPE OPTION #1 OR OPTION #2  
WILL BE WOUND ON REEL. IT  
DEPENDS ON THE CONTACT QTY.  
OF THE SOCKET.

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD					
ACCESS CODES				DRP		CASTIGLIONE		DATE		MAR 02,2023		ENG		SENG TEH		DATE		APR 11,2023	
				CHKD		S. OWEN		DATE		APR 11,2023		APPR		E. CHEN		DATE		MAR 15,2023	
DIVISION				DIVISION CODE															
DO NOT SCALE DRAWING		SCALE 8 1		TOLERANCES EXCEPT AS NOTED															
THIRD ANGLE PROJECTION																			
INTERPRET PER ASME Y14.5 - 2018																			
MAX SURFACE ROUGHNESS																			
SURFACES																			
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3M™ BOARDMOUNT SOCKET, .050" [ 1.27mm ], 9X9 SERIES  
DUAL ROW, STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE

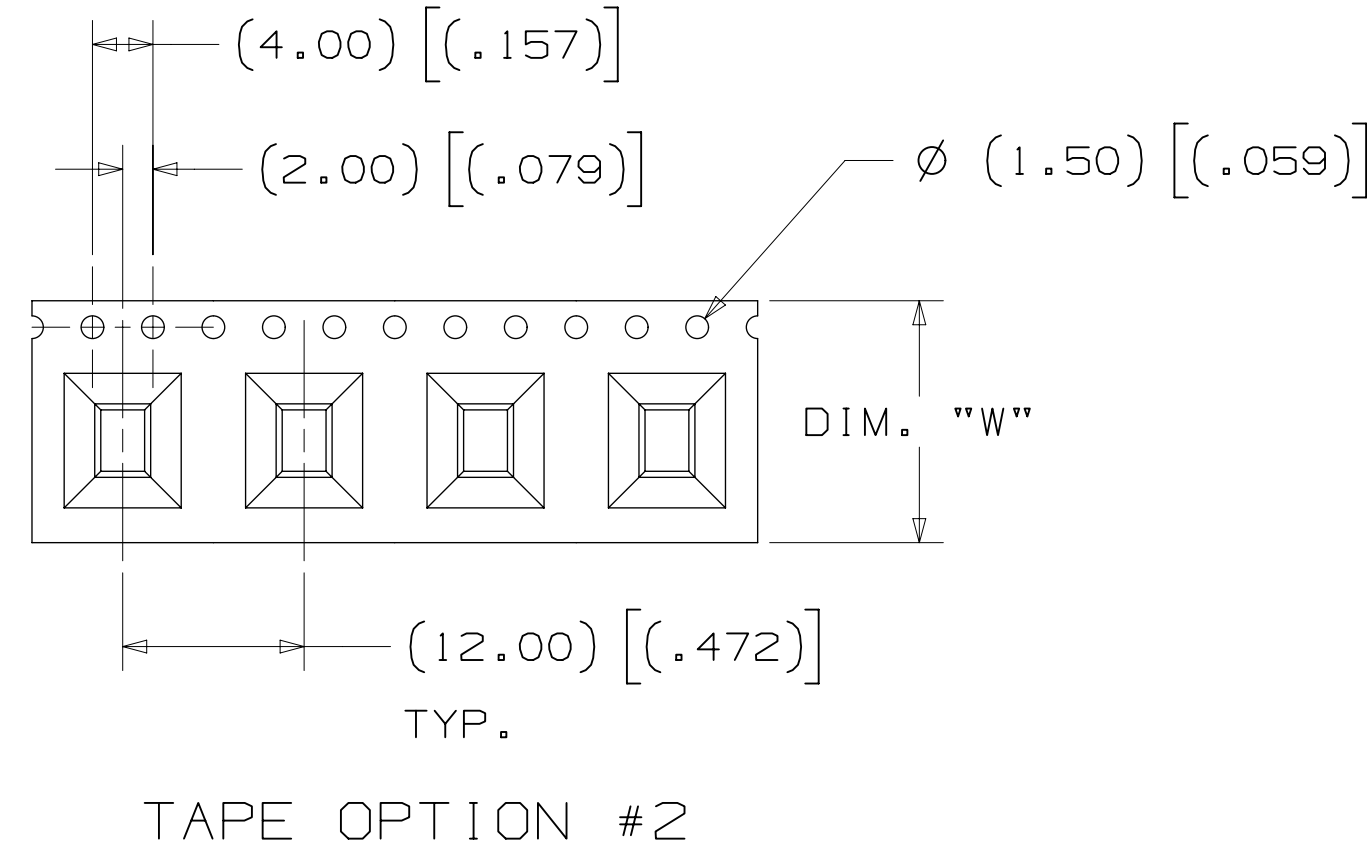
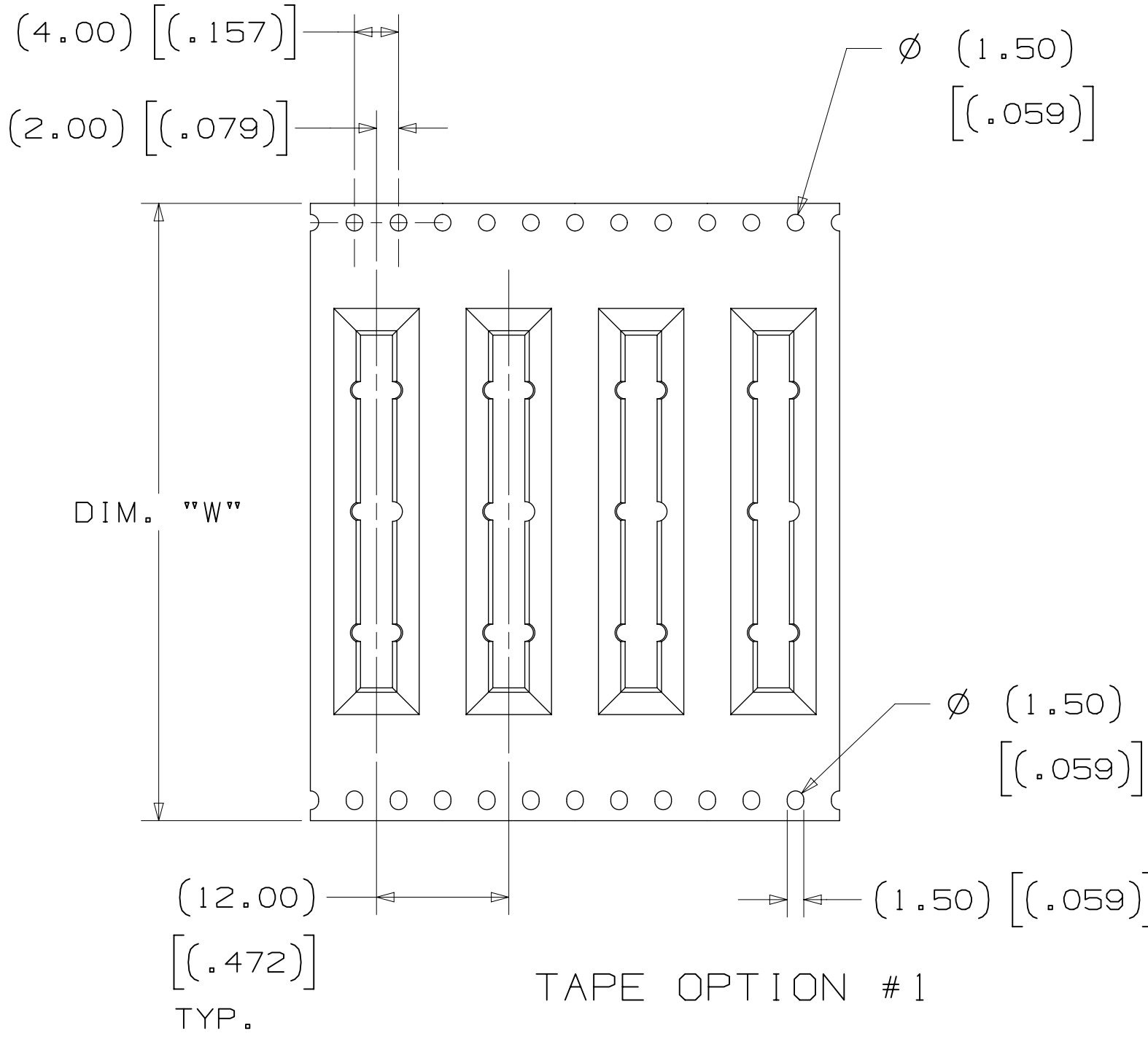
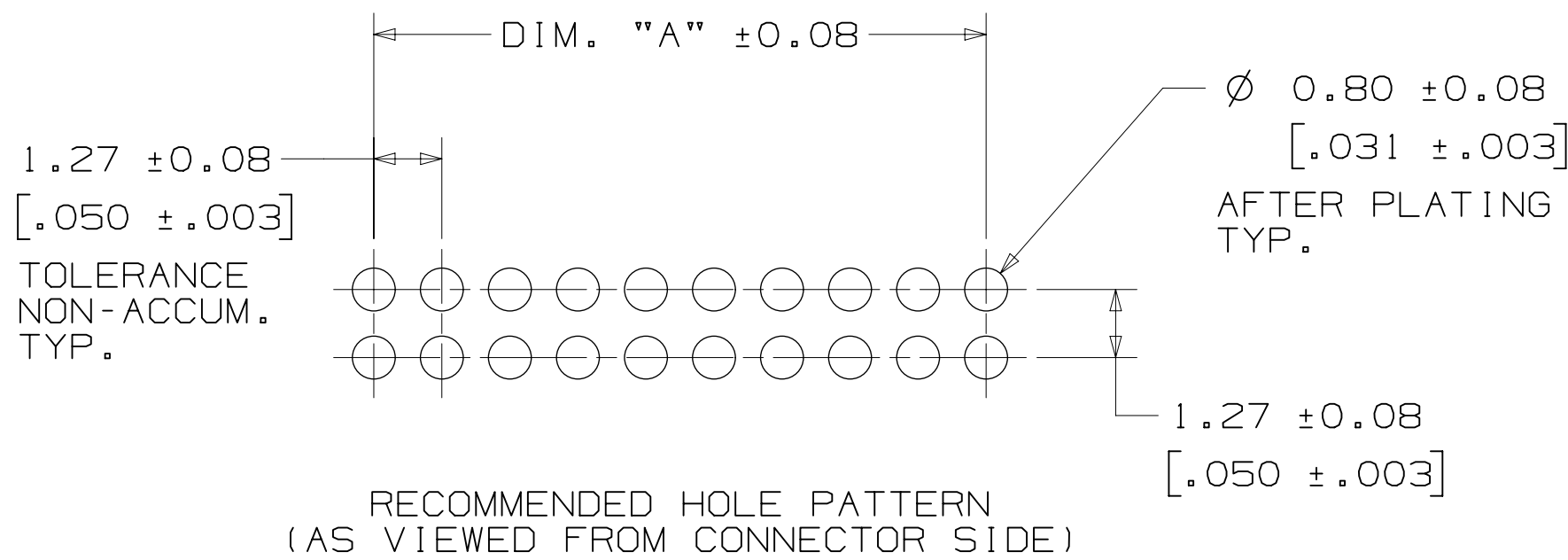
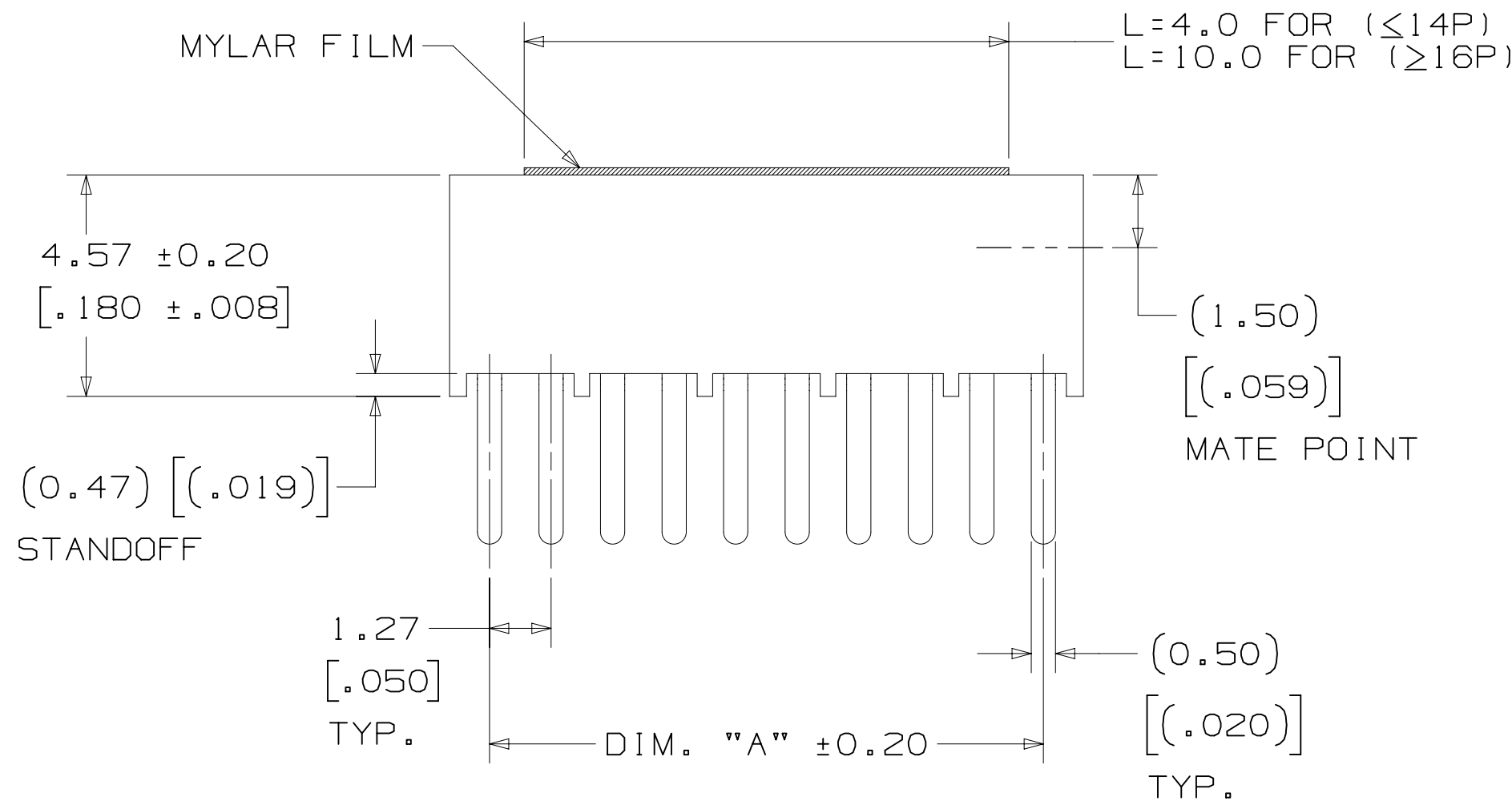
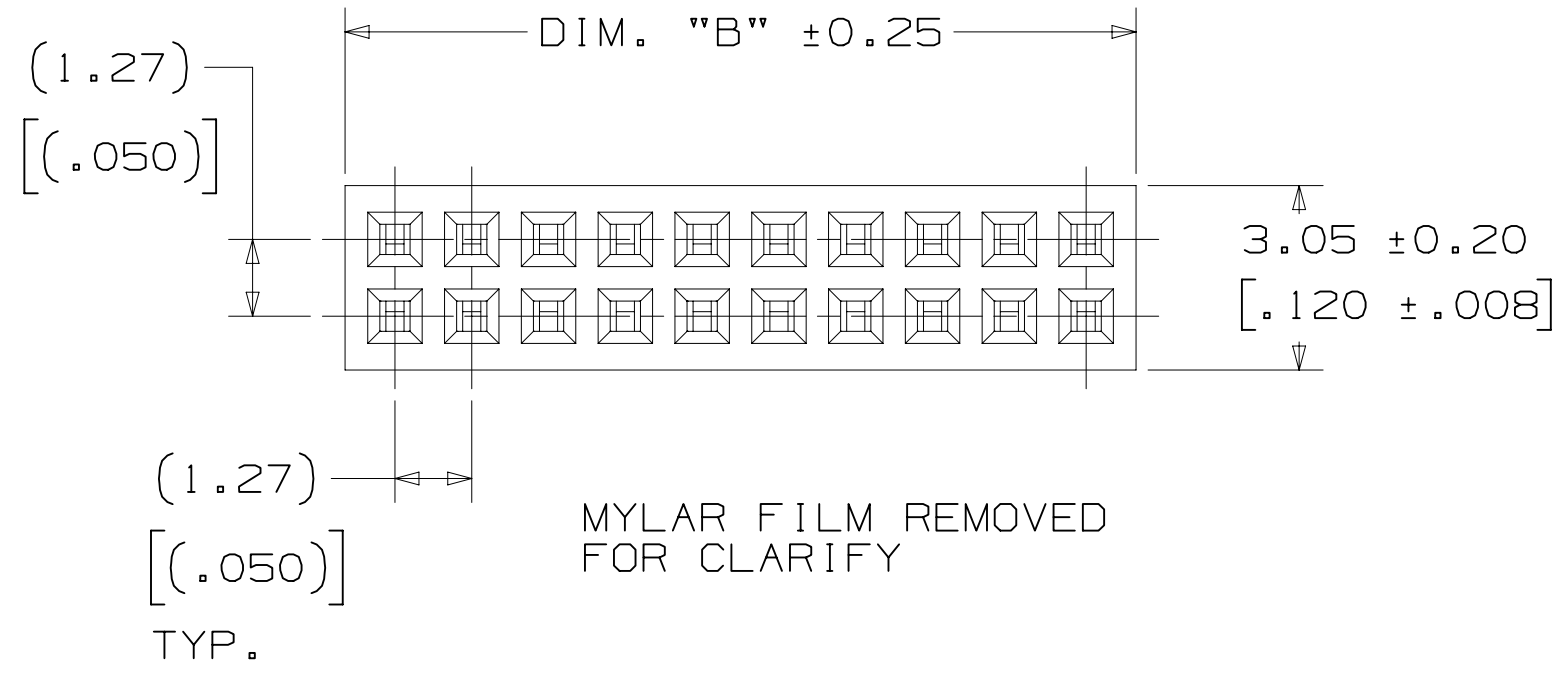


TABLE 1				
CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "W"	TAPE OPTION SEE NOTE 3
06	2.54 [ .100 ]	4.19 [ .165 ]	16mm	2
08	3.81 [ .150 ]	5.46 [ .215 ]	24mm	2
10	5.08 [ 2.00 ]	6.73 [ .265 ]	24mm	2
16	8.89 [ .350 ]	10.54 [ .415 ]	24mm	2
20	11.43 [ .450 ]	13.08 [ .515 ]	32mm	1
26	15.24 [ .600 ]	16.89 [ .665 ]	32mm	1
30	17.78 [ .700 ]	19.43 [ .765 ]	44mm	1
40	24.13 [ .950 ]	25.78 [ 1.015 ]	44mm	1
50	30.48 [ 1.200 ]	32.13 [ 1.265 ]	56mm	1
80	49.53 [ 1.950 ]	51.18 [ 2.015 ]	72mm	1

ORDERING INFORMATION  
STRAIGHT SOCKET  
909XX-0000

BMT STRAIGHT SOCKET

NUMBER OF CONTACTS  
(SEE TABLE 1)

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				B 114892		MAR 19,2024				JNC		EST					
				A 110471		REVISE TAIL PLATING				JNC		EST					
						MAY 25,2023											
						PRODUCTION RELEASE											
DESIGN REFERENCE				NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
ACCESS CODES				DIVISION CODE		DRFT		CASTIGLIONE		DATE		MAR 02,2023		ENG		SENG TEH	
CHKD				S. OWEN		DATE		APR 11,2023		APPV		E. CHEN		DATE		MAR 15,2023	
DIVISION				EMSD		DIVISION CODE				© 3M COPYRIGHT 1984							
DO NOT SCALE DRAWING				SCALE 8 1		TOLERANCES EXCEPT AS NOTED		3M		3M Center St. Paul, MN 55144		This document contains information on 3M property and may not be reproduced or further distributed without permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.					
				THIRD ANGLE PROJECTION		INCHES		TITLE		BOARDMOUNT SOCKET, 1.27MM [ .050" ], 9X9 SERIES							
INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS		.0 ±.00 ±.000 ±.000 ±		CAGE NUMBER		SIZE		DRAWING NO.		REV.			
MAX SURFACE ROUGHNESS				SURFACES		.0 ±.03 ±.00 ±.13 ±.000 ±.005		D		78-5100-2780-4		B					
✓ MARKED ONLY				ANGLES		9X9XX		MODEL		LISTS		YES		NO		SHT 2 OF 4	

3M™ BOARDMOUNT SOCKET, .050" [ 1.27mm ], 9X9 SERIES  
DUAL ROW, STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE

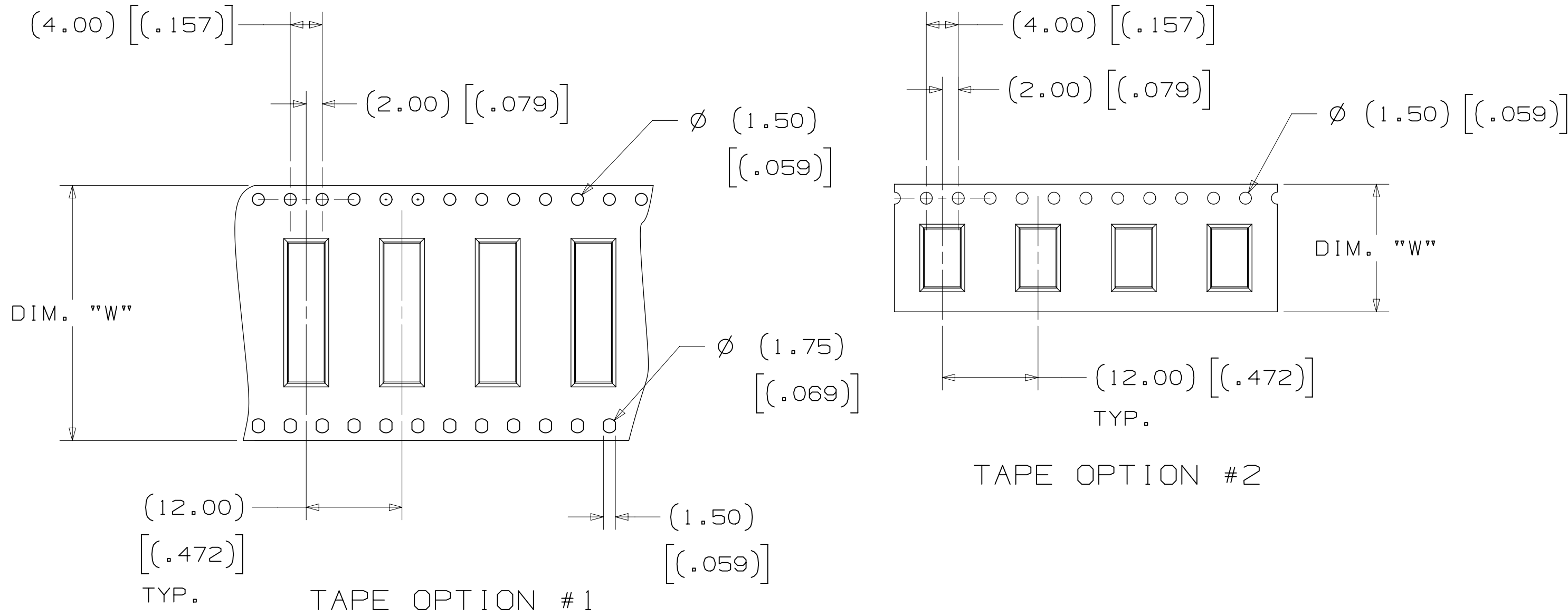
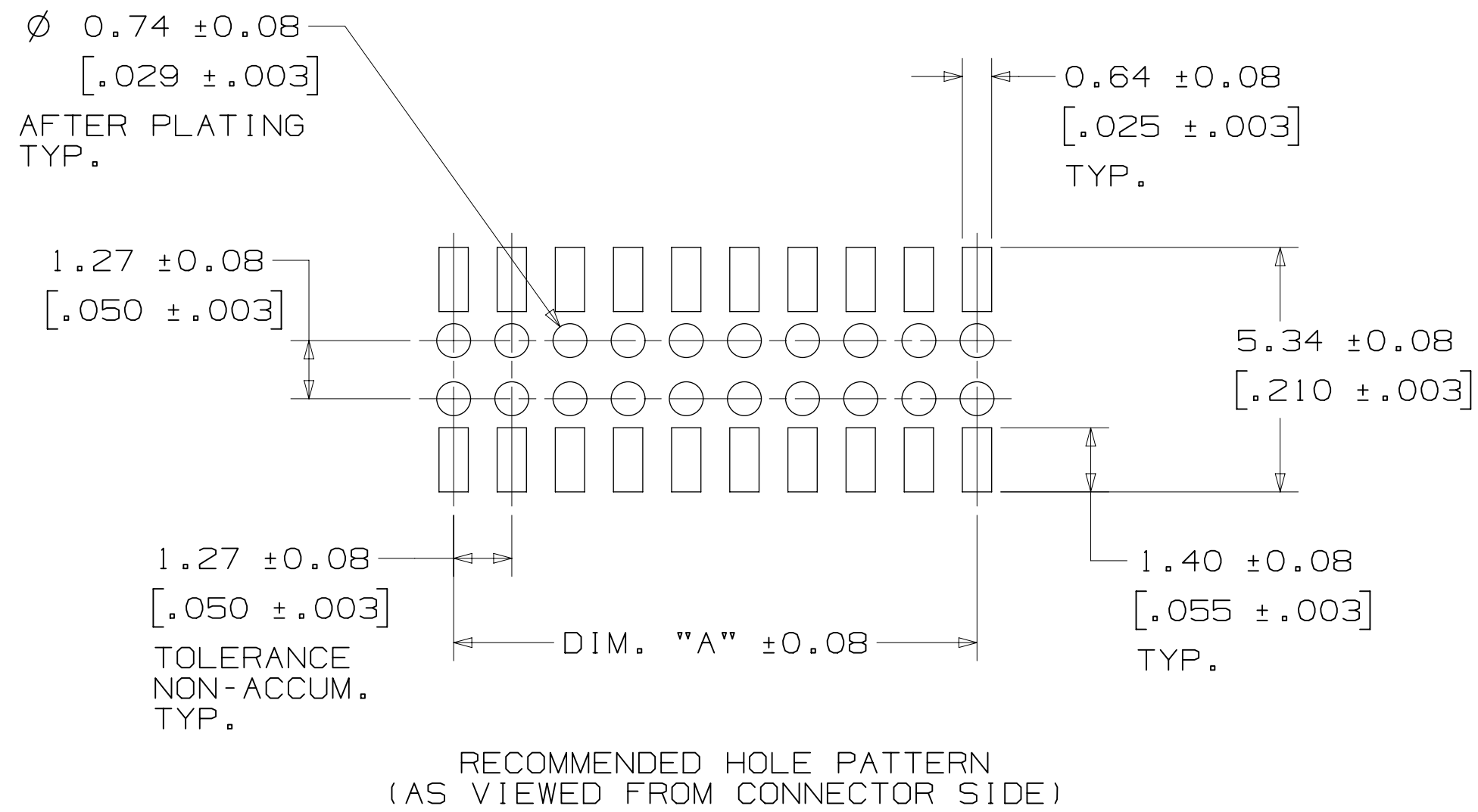
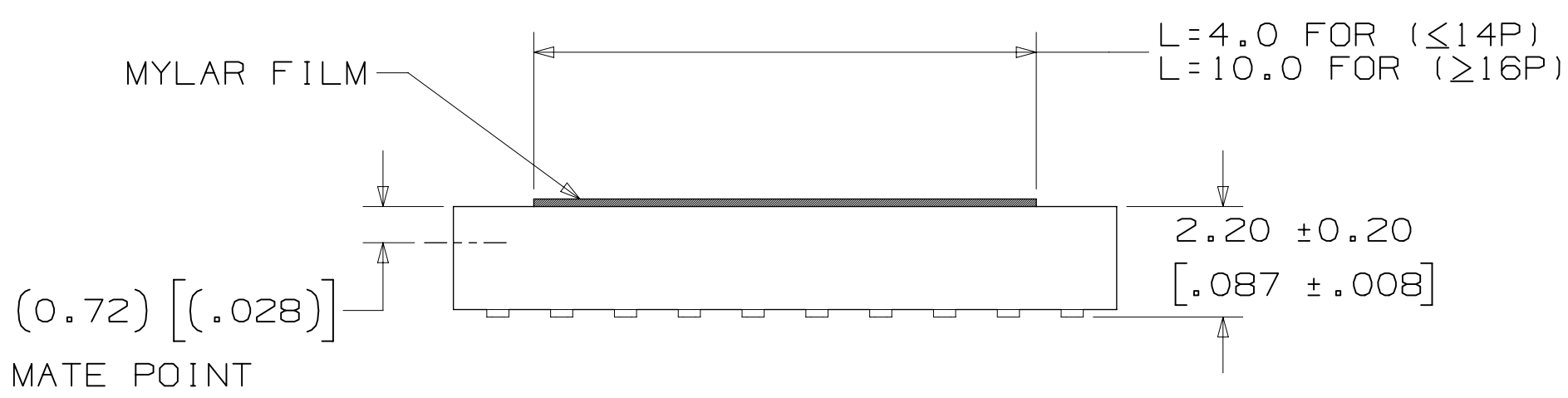
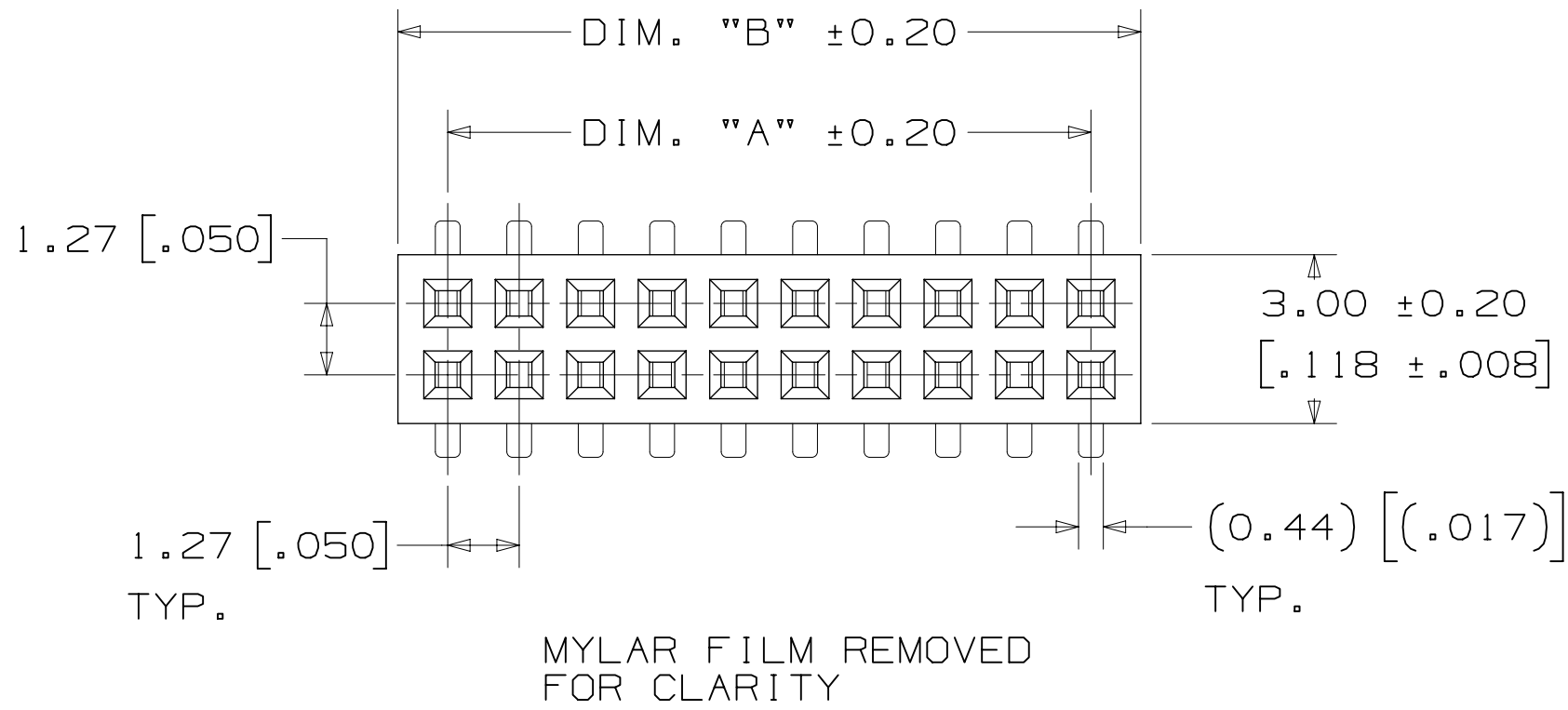


TABLE 2				
CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "W"	TAPE OPTION SEE NOTE 3
06	2.54 [ .100 ]	4.31 [ .170 ]	16MM	2
08	3.81 [ .150 ]	5.58 [ .220 ]	16MM	2
10	5.08 [ 2.00 ]	6.85 [ .270 ]	16MM	2
16	8.89 [ .350 ]	10.66 [ .420 ]	24MM	2
20	11.43 [ .450 ]	13.20 [ .520 ]	24MM	2
26	15.24 [ .600 ]	17.01 [ .670 ]	32MM	1
30	17.78 [ .700 ]	19.55 [ .770 ]	32MM	1
40	24.13 [ .950 ]	25.90 [ 1.020 ]	44MM	1
50	30.48 [ 1.200 ]	32.25 [ 1.270 ]	44MM	1

ORDERING INFORMATION  
SURFACE MOUNT SOCKET  
919XX-0000

BMT SURFACE MOUNT SOCKET

NUMBER OF CONTACTS  
(SEE TABLE 2)

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				B 110492		MAR 19,2024				JNC		EST																			
				A 110471		REVISE TAIL PLATING				MAY 25,2023				JNC	EST																
						PRODUCTION RELEASE																									
DESIGN REFERENCE				NEXT ASSEMBLY				REV				ECO				ISSUE DATE AND DESCRIPTION				DRFT		CHKD									
ACCESS CODES								REF		CASTIGLIONE		DATE		MAR 02,2023		MFG		ENG		SENG TEH		DATE		APR 11,2023							
								CHKD		S. OWEN		DATE		APR 11,2023		APPV		E. CHEN				DATE		MAR 15,2023							
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								.00 ±				.00 ±				.00 ±				.00 ±				.00 ±				.00 ±			
INTERPRET PER ASME Y14.5 - 2018								MILLIMETERS				.00 ±				.00 ±				.00 ±				.00 ±				.00 ±			
MAX SURFACE ROUGHNESS								MILLIMETERS				.00 ±				.00 ±				.00 ±				.00 ±				.00 ±			
✓				□ MARKED ONLY				ANGLES				.00 ±				.00 ±				.00 ±				.00 ±				.00 ±			
CAGE NUMBER				D				SIZE				78-5100-2780-4				REV				B											
MODEL				9X9XX				DET.				LISTS				YES				NO				SHT 3 OF 4							

DUAL ROW, STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE


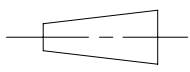
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		B	I14892	MAR 19,2024		JNC	EST
				REVISE TAIL PLATING			
		A	I10471	MAY 25,2023		JNC	EST
				PRODUCTION RELEASE			
DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS CODES		CHD	CASTIGLIONE	DATE	MAR 02,2023	WFO	APR 11,2023
		CHD	S. OWEN	DATE	APR 11,2023	APPROV.	DATE
						E. CHEN	MAY 15,2023
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2024			
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SCALE 1/1		INCHES		TITLE			
		.00 ± .00 ± .00 ± .0000 ±		BOARDMOUNT SOCKET, 1.27MM [ .050" ], 9X9 SERIES			
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		CAGE NUMBER			
		.00 ±0.3 .00 ±0.13 .000 ±0.005		SIZE DRAWING NO.			
MAX SURFACE ROUGHNESS		ANGLES		D 78-5100-2780-4			
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				SHT 4 OF 4			
				REV. LISTS YES YES YES NO			