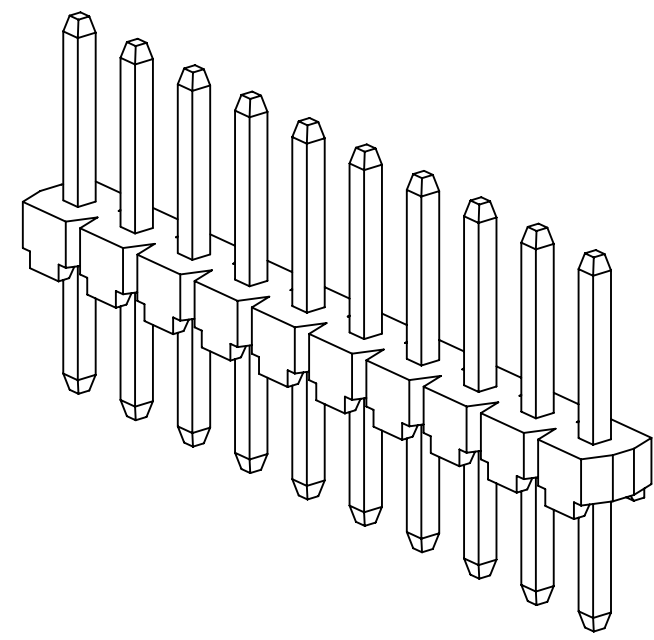
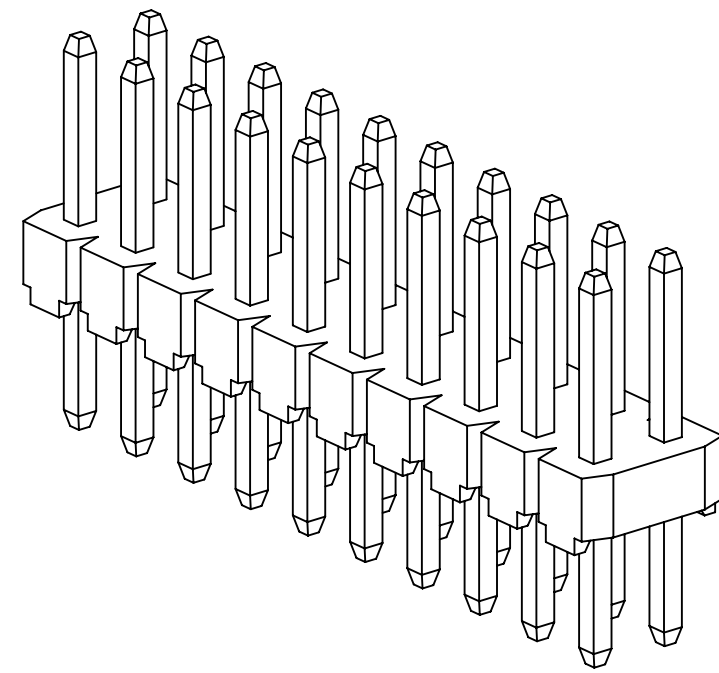


3M™ PIN STRIP HEADER, 951 SERIES

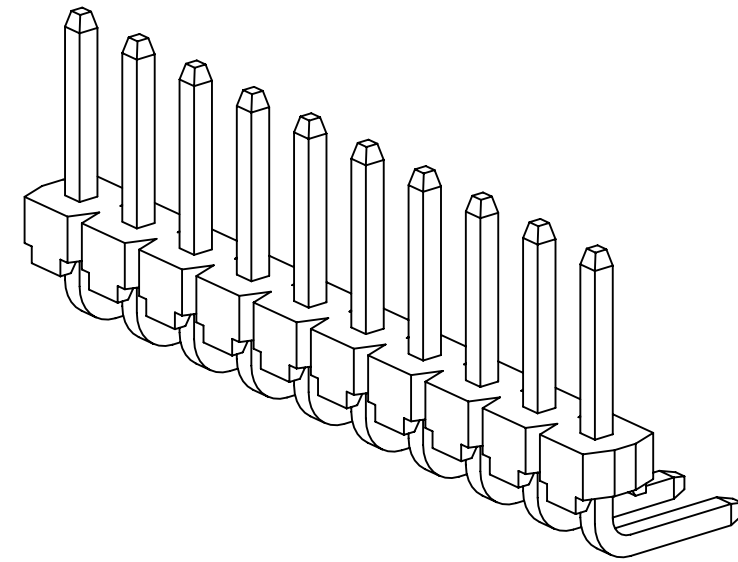
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



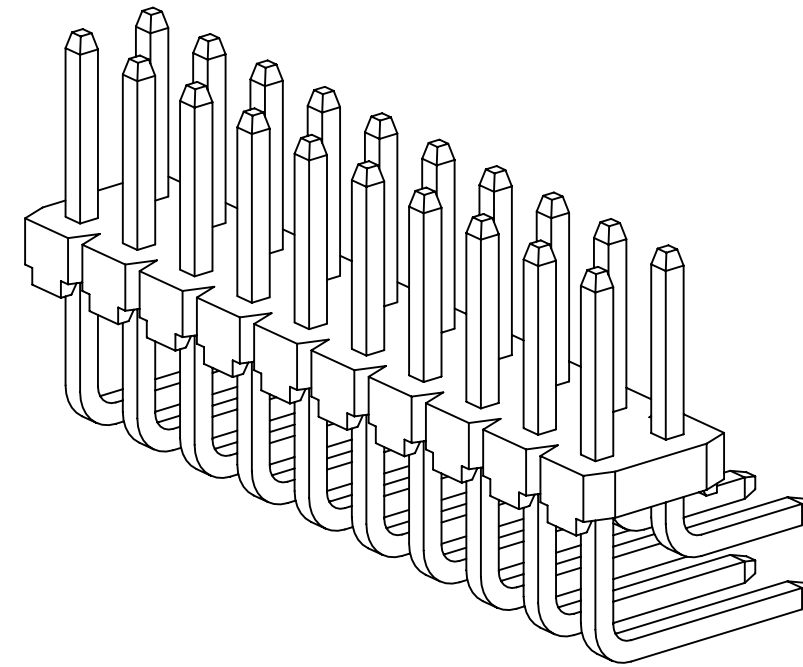
SINGLE ROW STRAIGHT VERSION



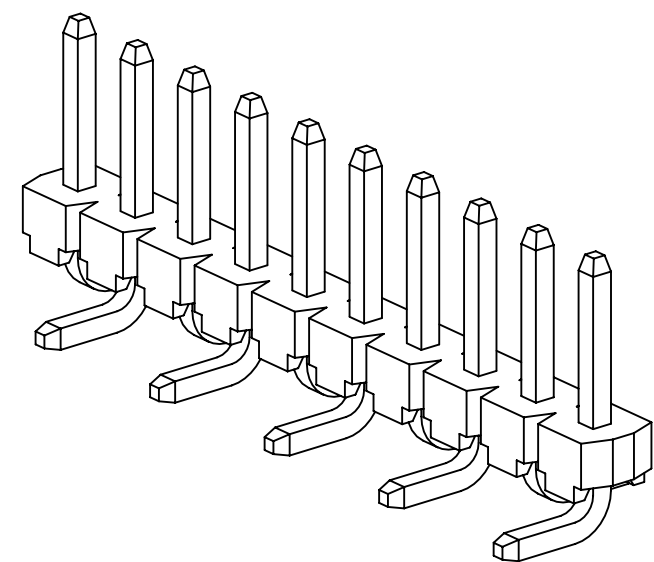
DUAL ROW
STRAIGHT
VERSION



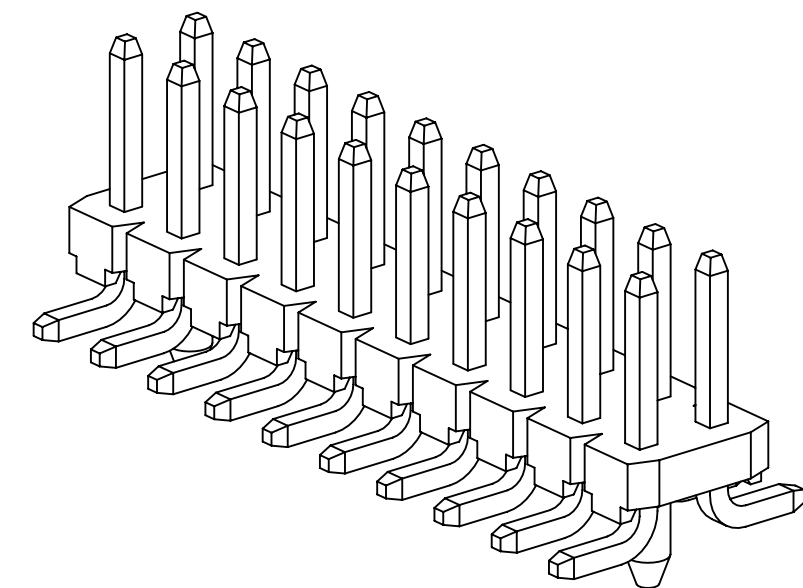
SINGLE ROW
RIGHT ANGLE
VERSION



DUAL ROW
RIGHT ANGLE
VERSION



SINGLE ROW
SURFACE MOUNT
VERSION



DUAL ROW
SURFACE MOUNT
VERSION

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2 PHYSICAL :
 INSULATOR :
 MATERIAL : HIGH TEMP THERMOPLASTIC
 FLAMMABILITY : UL94V-0
 COLOR : BLACK
 CONTACT :
 MATERIAL : BRASS
 PLATING :
 UNDER PLATING : 50μ" [1.27μm] NICKEL-OVERALL
 WIPING AREA : GOLD FLASH
 SOLDER TAILS : 40-118μ" [1-3μm]
 MARKINGS : ORIENTATION TRIANGLE

2 ELECTRICAL :
 CURRENT RATING: 2A
 CONTACT RESISTANCE: $\leq 20\text{m}\Omega$
 INSULATION RESISTANCE: $\geq 1000\text{M}\Omega$
 WITHSTANDING VOLTAGE: 500V_{RMS} , 1mA, 60s

2 MECHANICAL :
RETENTION FORCE : $\geq 4.5\text{N}$ PER PIN

2 ENVIRONMENTAL :
 TEMPERATURE RATING: -55°C TO 125°C
 HUMIDITY: ≤ 93% AT 40°C
 RESISTANCE TO SOLDERING HEAT: PBT, 245°C±5°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	N = THE NUMBER OF POSITIONS.

C	104062	APR 21, 2022 REVISE TO CURRENT STANDARDS	JNC	FJR
B	76546	NOV 08, 2017 REVISE SHT 4	JNC	SC
A	72044	MAR 06, 2017 REVISE ELECTRICAL NOTES 3-2-17 REMOVED 2 CONNECTORS PRODUCTION RELEASE	JNC	TS

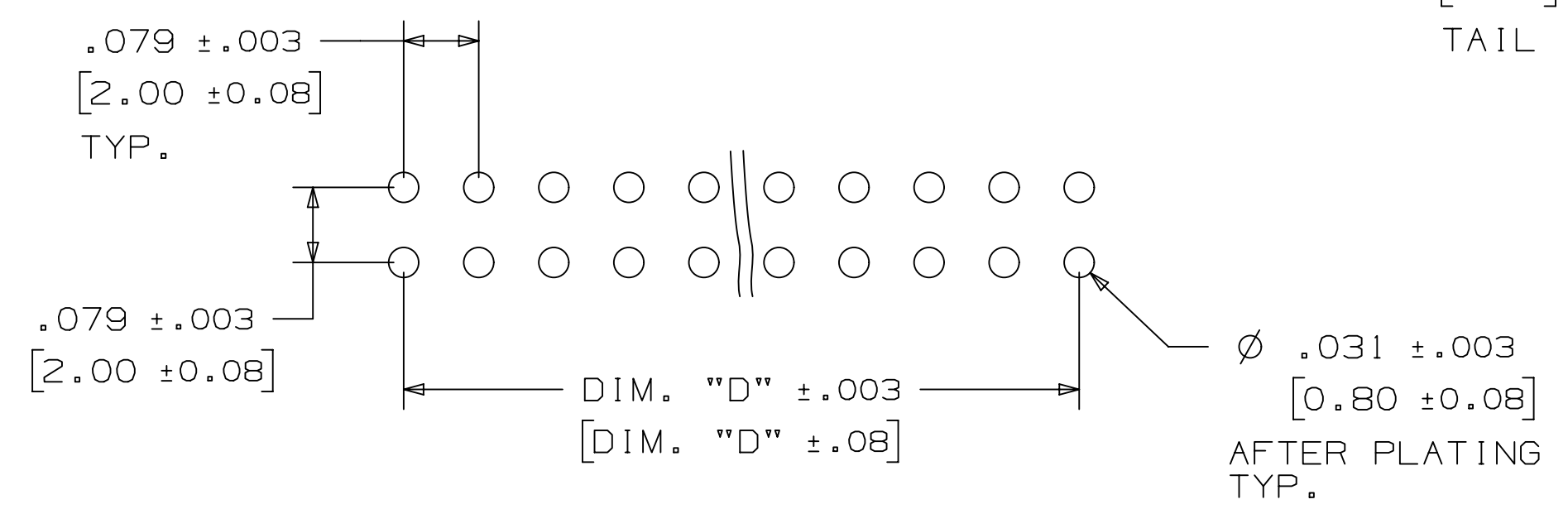
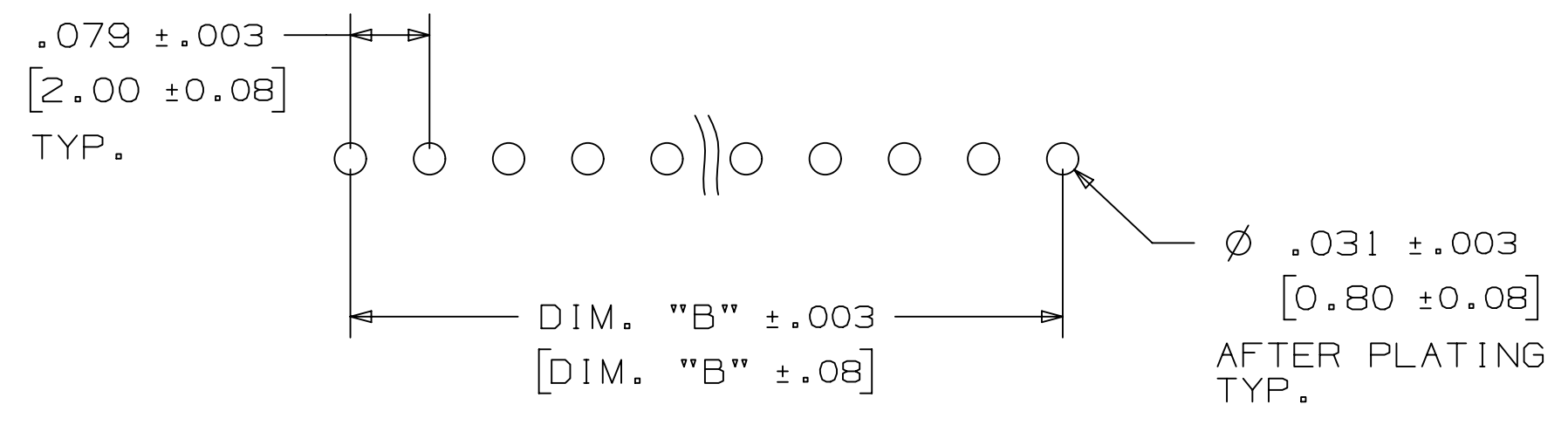
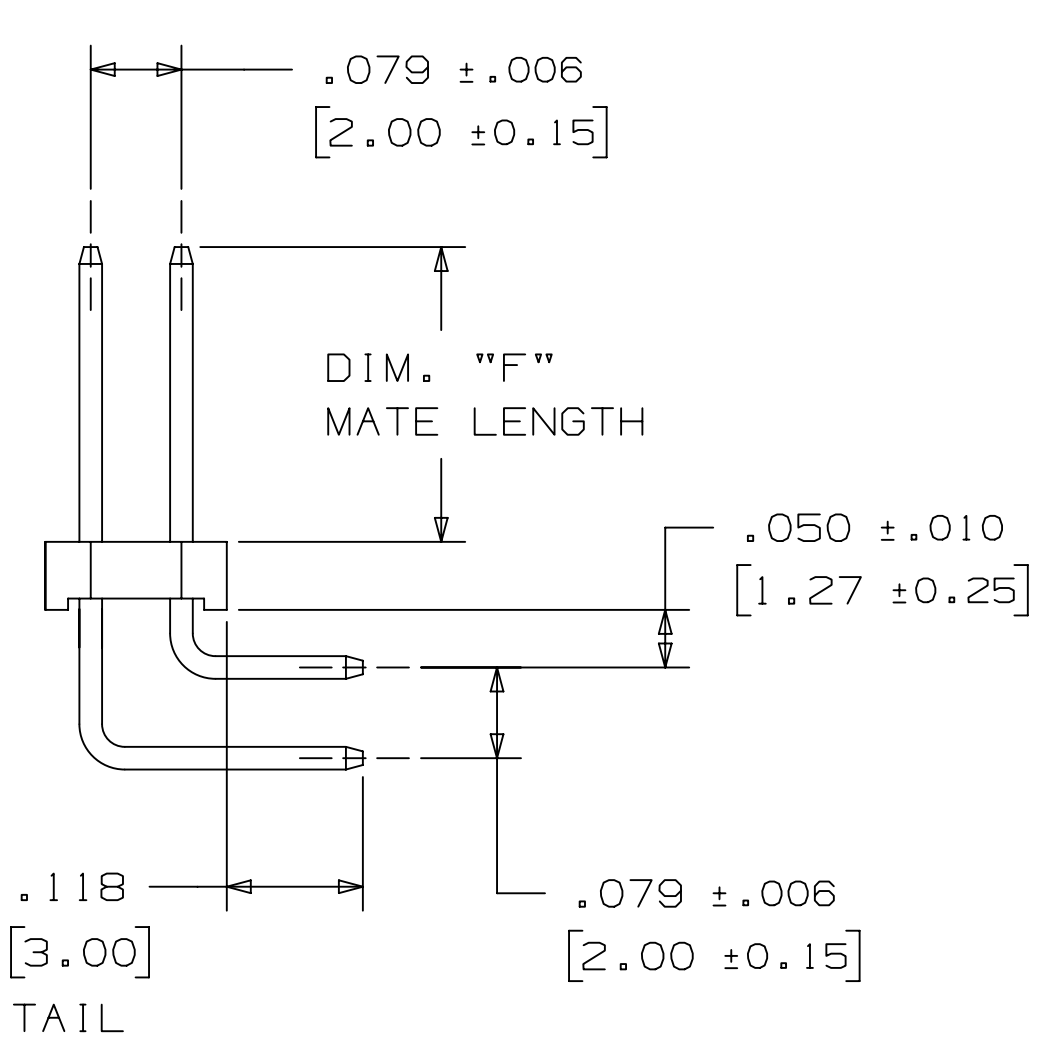
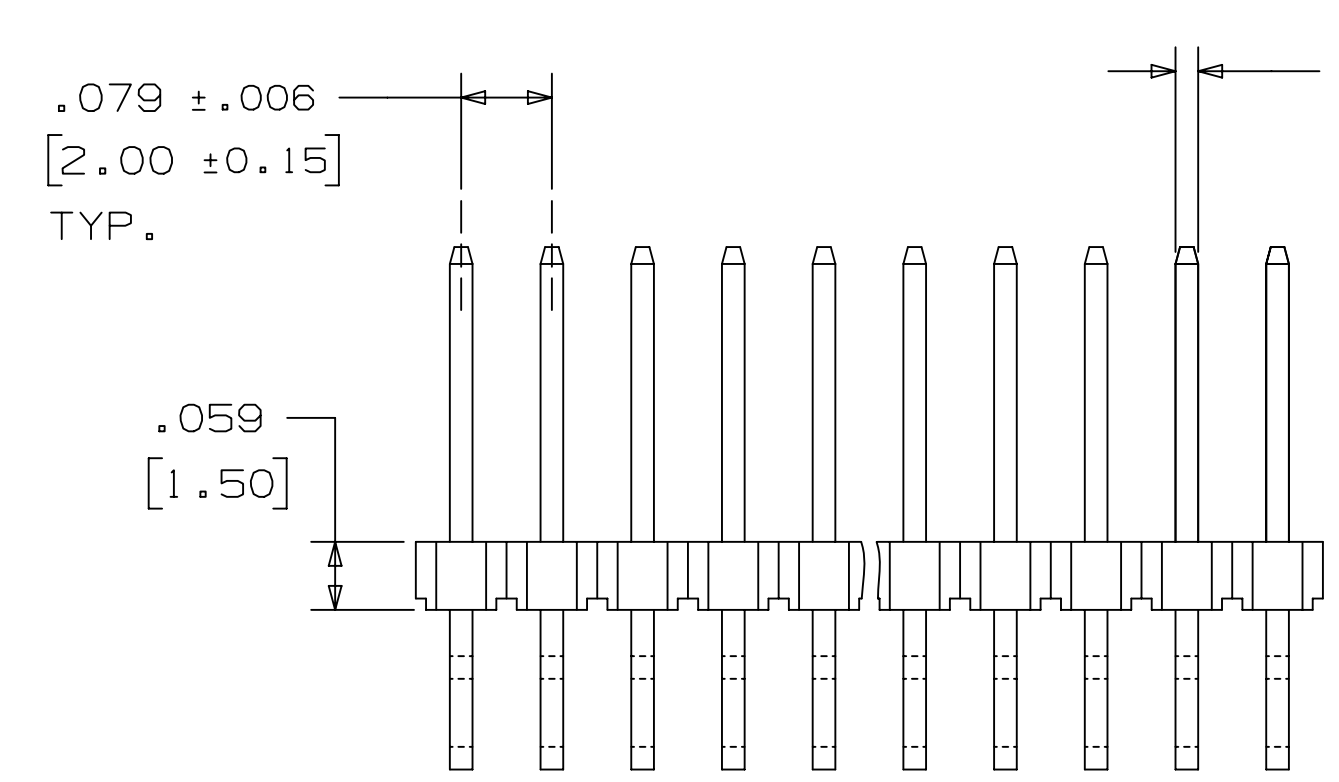
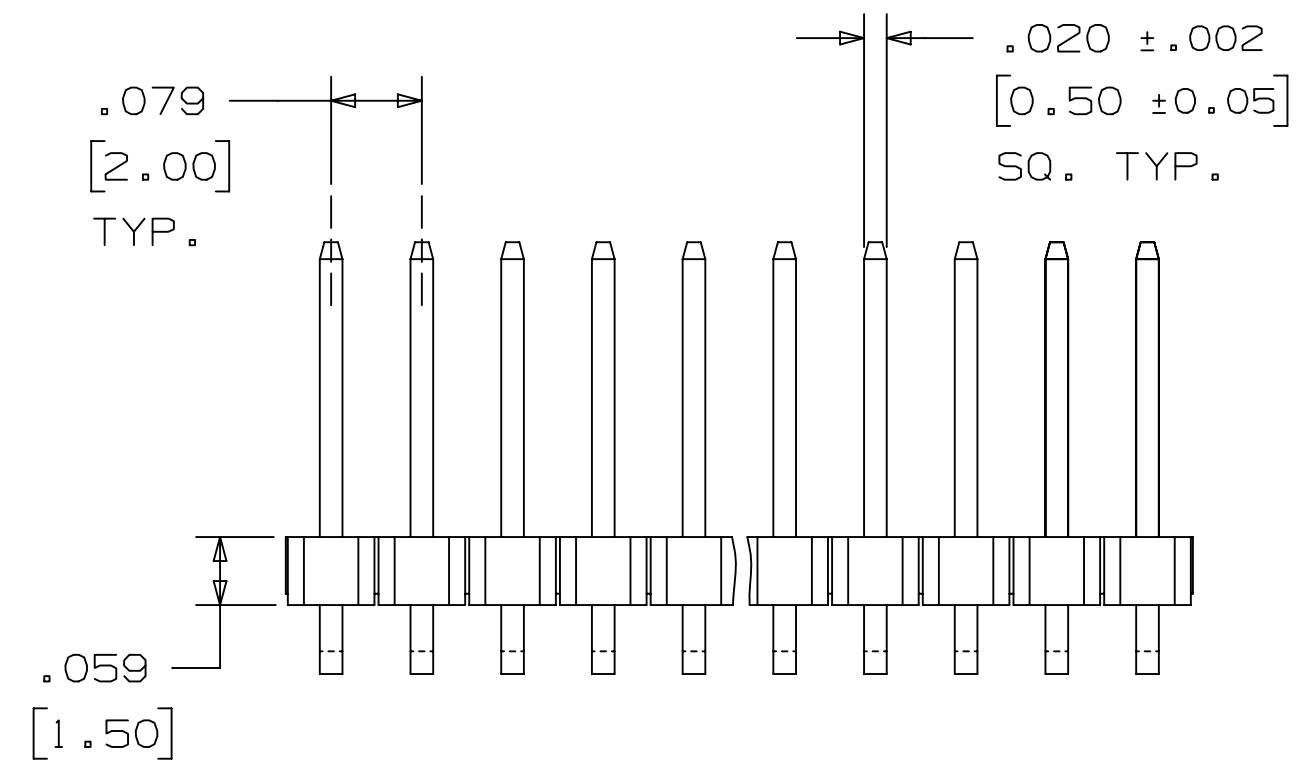
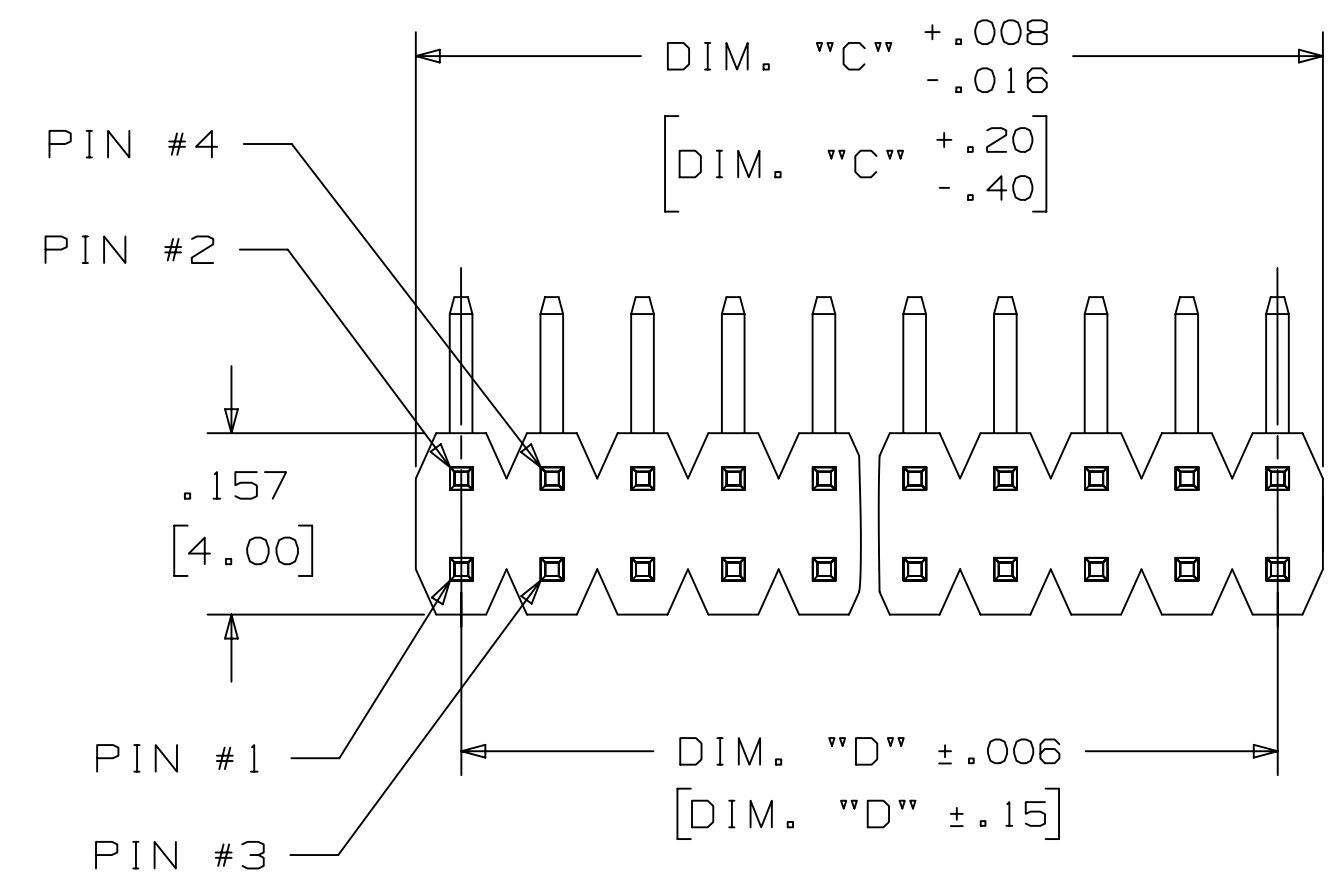
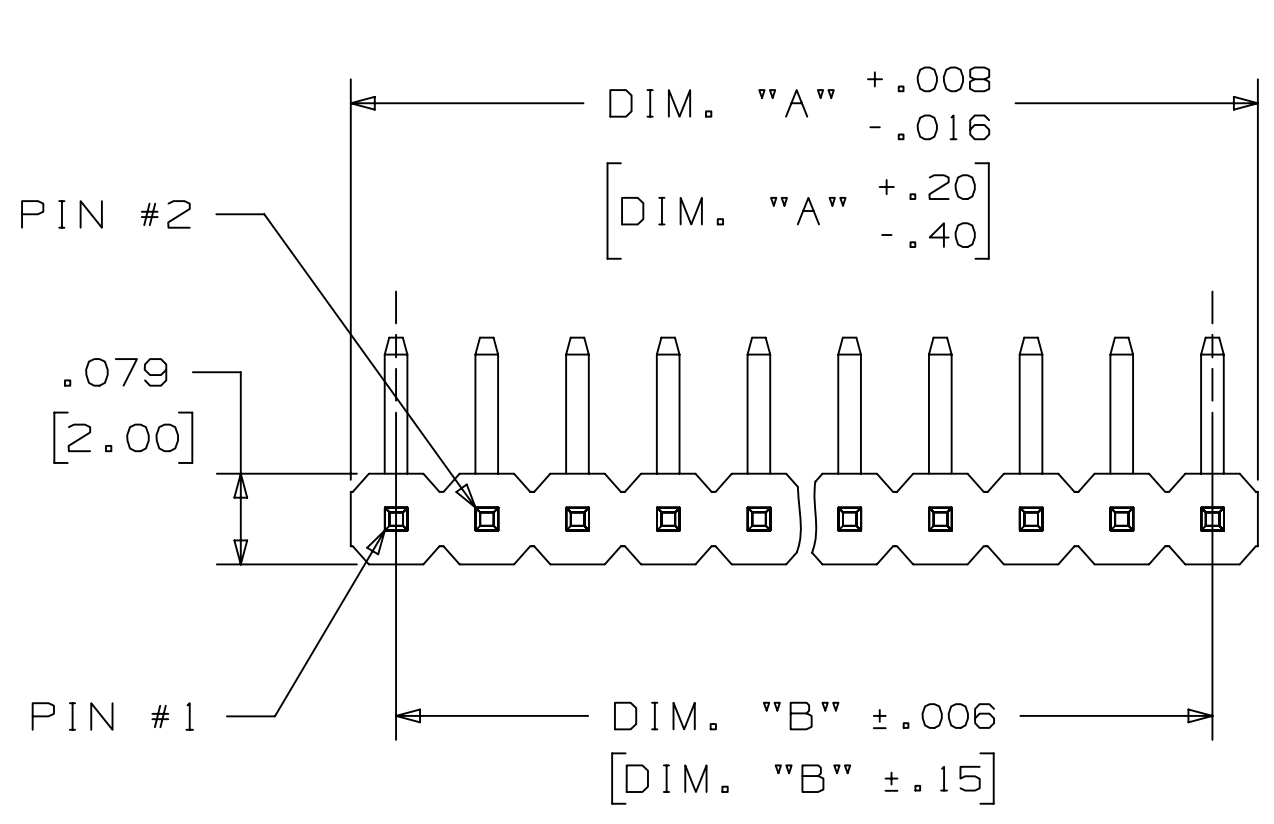
REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
DRFT	CAS1TGL1ONE	DATE	FEB 23, 2015	MFG	DATE	
CHKD		DATE		APPRV.	T. SUNIGA	DATE FEB 23, 2015
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		TITLE PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL				
CAGE NUMBER	SIZE	DRAWING NO.				REV.
D		78-5100-2653-3				C
MODEL	951XXX			DET.	LISTS ☐ YES ☒ NO	
		SHT 1 OF 5				





DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ASSEMBLY CODES				DRY	CAST	GLIONE	DATE	FEB 23, 2015	MFG
				CHKD			DATE		
						APPRV.	T. SUNIGA		DATE
								FEB 23, 2015	
DIVISION		DIVISION CODE				© 3M COPYRIGHT 2022			
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		TOLERANCES EXCEPT AS NOTED							
 THIRD ANGLE PROJECTION		INCHES .00 ± .02 .00 ± .008 .000 ± .005 .0000 ± .0002		TITLE PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL					
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .01 ± .000 ± .000 ±		CAGE NUMBER D 78-5100-2653-3		SIZE DRAWING NO.		REV.	
MAX SURFACE ROUGHNESS ALL SURFACES ☒ MARKED ONLY		ANGLES		MODEL 951XXX		DET. SHTS		☒ YES ☒ NO SHT 2 OF 5	

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION
RIGHT ANGLE VERSION
951XXX-7X22-AR

No. OF ROWS:
1 = 1 ROW
2 = 2 ROW

DIM. "F"
MATING PIN LENGTH:
6 = 0.173 [4.40]
7 = 0.295 [7.50]

CONTACT QTY:
40 PINS = 1 ROW
80 PINS = 2 ROW

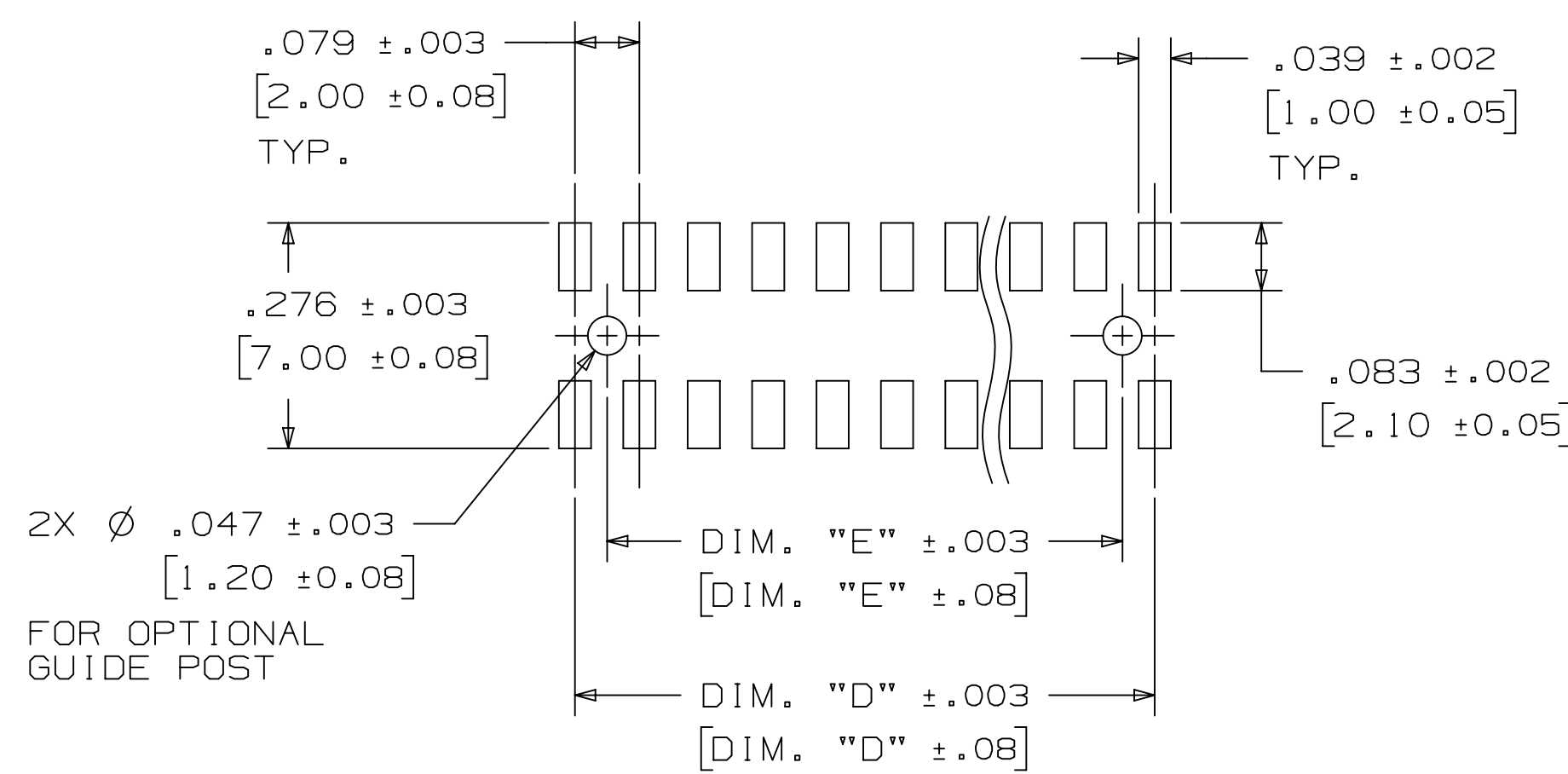
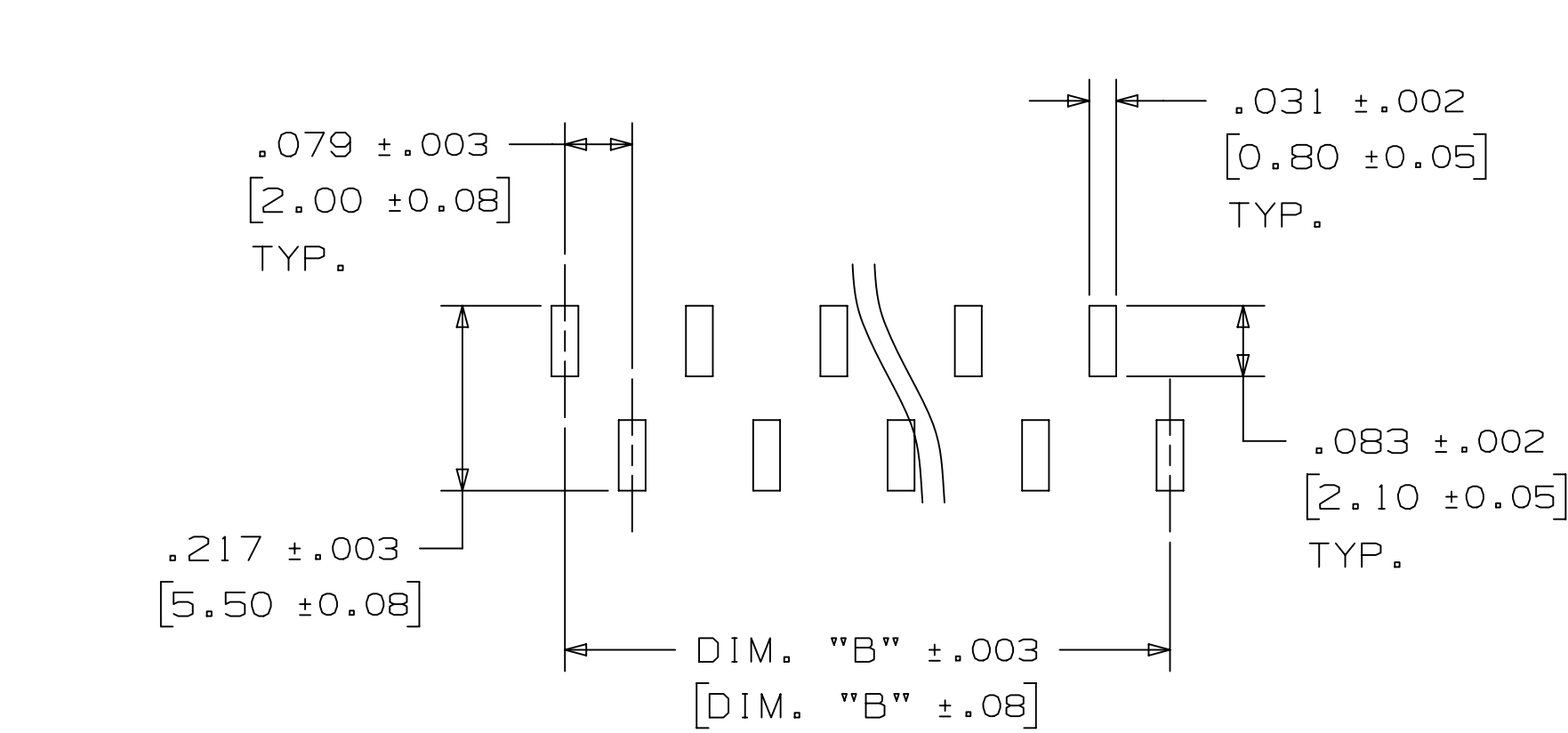
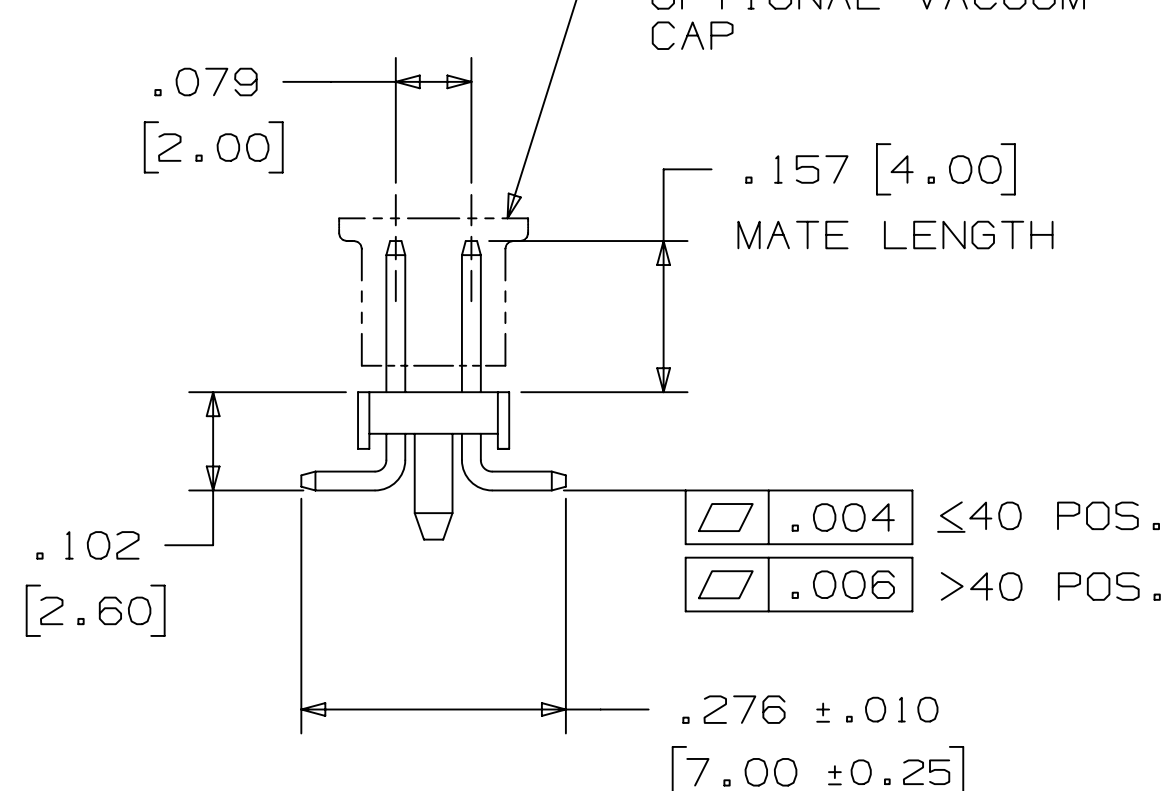
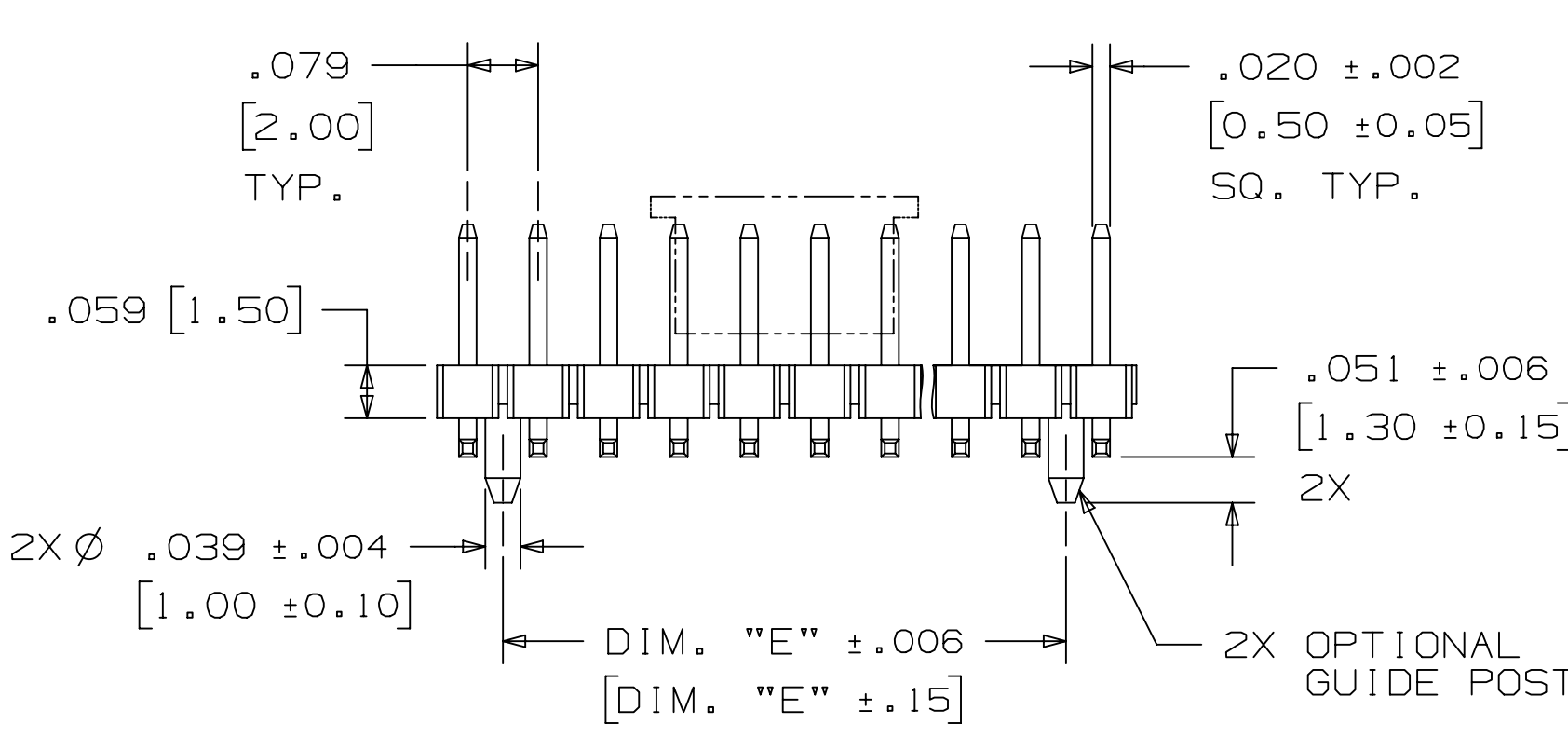
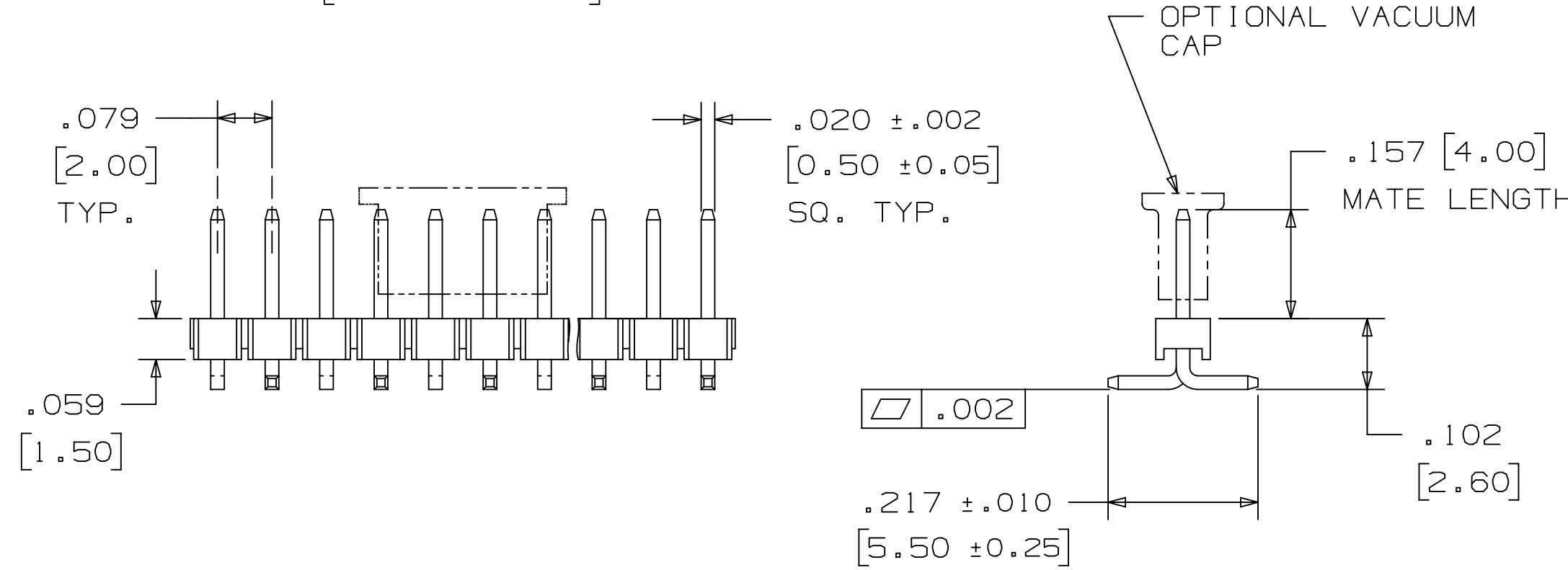
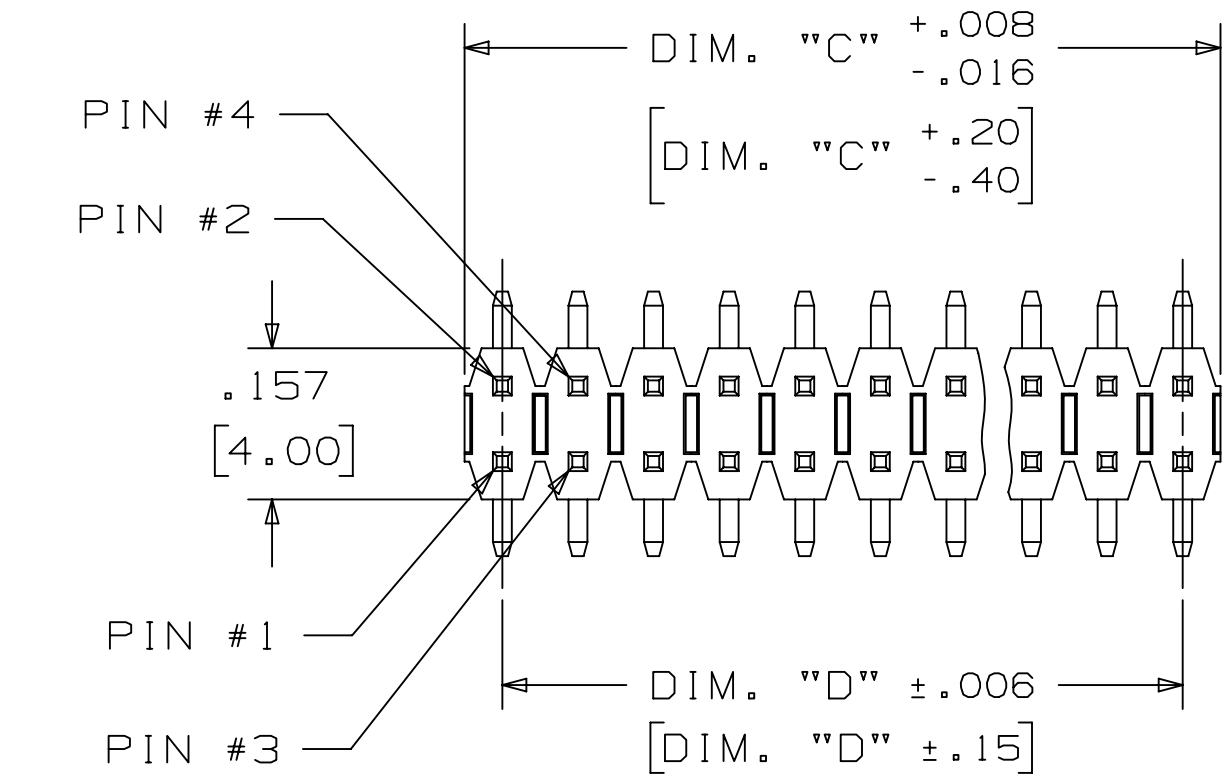
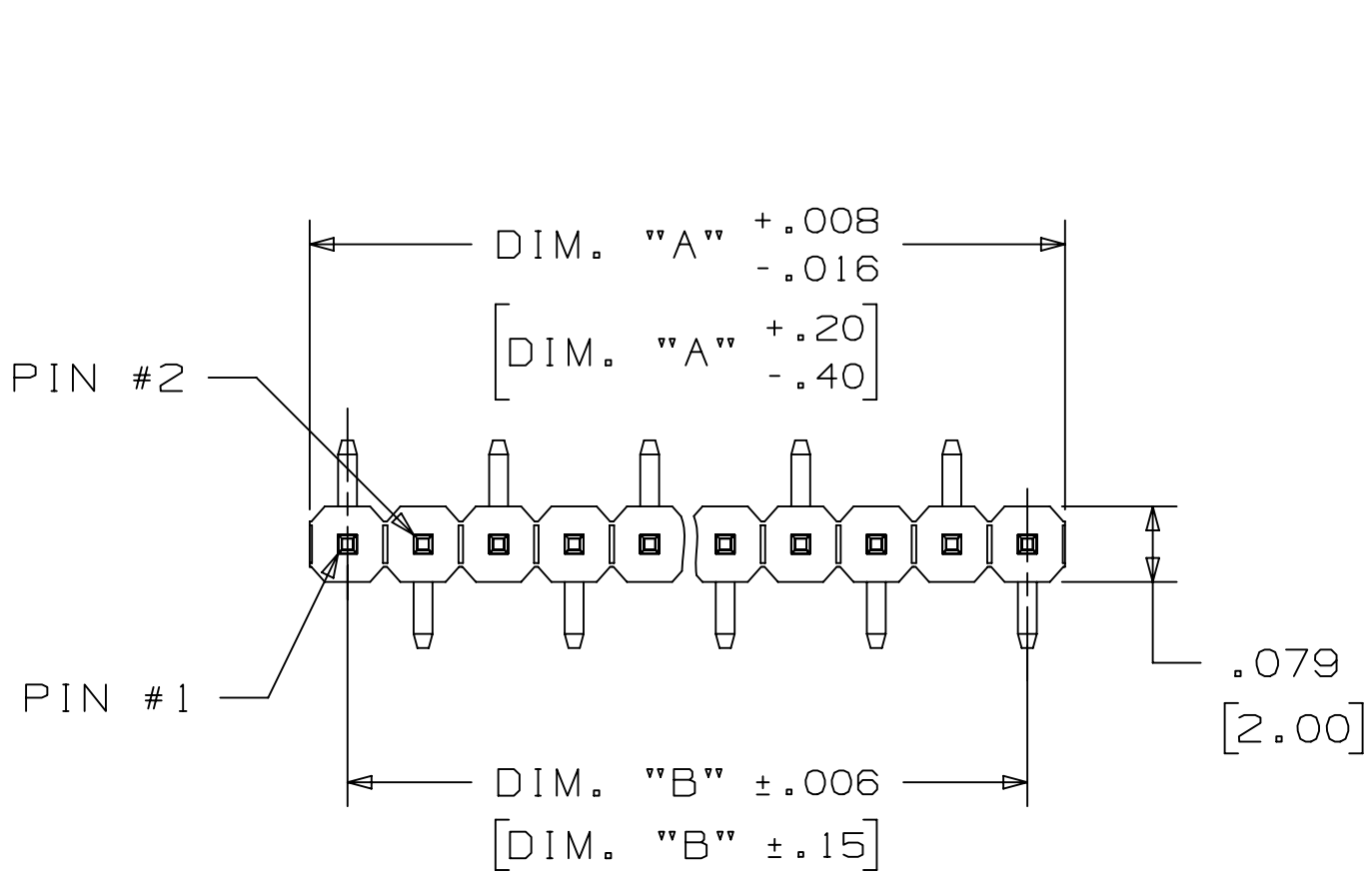
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TABLE 2	
DIM. "A"	0.079 [2.00] X N
DIM. "B"	0.079 [2.00] X (N-1)
DIM. "C"	0.079 [2.00] X (N/2)
DIM. "D"	0.079 [2.00] X (N/2-1)
SEE NOTE 3	

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREFS		XREFS		DRFT	CASTIGLIONE	DATE	FEB 23, 2015	MFG	DATE
DIVISION		DIVISION CODE		CHKD	DATE	APPR	DATE	DATE	DATE
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED					
THIRD ANGLE PROJECTION		SCALE		TOLERANCES EXCEPT AS NOTED					
INTERPRET PER ASME Y14.5 - 2018		SCALE		TOLERANCES EXCEPT AS NOTED					
MAX. SURFACE ROUGHNESS		SCALE		TOLERANCES EXCEPT AS NOTED					
ALL SURFACES		SCALE		TOLERANCES EXCEPT AS NOTED					
MARKED ONLY		SCALE		TOLERANCES EXCEPT AS NOTED					
CAGE NUMBER		CAGE NUMBER		CAGE NUMBER					
DRAWING NO.		DRAWING NO.		DRAWING NO.					
MODEL		MODEL		MODEL					
951XXX		951XXX		951XXX					
LISTS		LISTS		LISTS					
YES		YES		YES					
NO		NO		NO					
SHT 3 OF 5		SHT 3 OF 5		SHT 3 OF 5					

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL



RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION
SURFACE MOUNT VERSION

951XXX-25X0-AR-XX

No. OF ROWS:
1 = 1 ROW
2 = 2 ROW

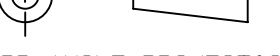
CONTACT QUANTITY:
40 PINS = 1 ROW
80 PINS = 2 ROW

PACKAGING:
TP = TUBE
PT = TUBE WITH PAD
PR = TAPE & REEL WITH PAD
NOTE: PAD OPTIONS
1 ROW = 40 POSITION
2 ROW = 80 POSITION

BOARD LOCATION FEATURES:
3 = 1 ROW / PIN 1 LEFT
2 = 2 ROW / NONE
5 = 2 ROW / WITH LOCATION POST
(8 - 14 CONTACTS)

TABLE 3		
DIM. "A"	.079 [2.00] X N	
DIM. "B"	.079 [2.00] X (N-1)	
DIM. "C"	.079 [2.00] X (N/2)	
DIM. "D"	.079 [2.00] X (N/2-1)	
DIM. "E"	.079 [2.00] X (N/2-2)	
SEE NOTE 3		

TAPE & REEL OPTION		
1 ROW	CONTACT QTY.	40
2 ROW	CONTACT QTY.	80
TAPE WIDTH [MM]		104

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES		DIVISION CODE		DRFT	CASTIGLIONE	DATE	FEB 23, 2015	DATE	
				CHKD		DATE		DATE	
DIVISION		EMSD		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2022 This document and the information it contains are 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.		APPRV. T. SUNIGA DATE FEB 23, 2015	
DO NOT SCALE DRAWING		SCALE 5 1		TOLERANCES EXCEPT AS NOTED					
		INCHES .00 ±.02 .00 ±.008 .000 ±.005 .0000 ±.0002		TITLE PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL					
THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .00 ± .000 ± .0000 ±		CAGE NUMBER SIZE DRAWING NO. D 78-5100-2653-3		REV. C			
MAX SURFACE ROUGHNESS ☒ ALL SURFACES ☐ MARKED ONLY		ANGLES ±		MODEL 951XXX		DET. LISTS ☐ YES ☒ NO SHT 4 OF 6			

3M™ PIN STRIP HEADER, 951 SERIES
2MM AND 2MM X 2MM STRAIGHT, RIGHT ANGLE AND SURFACE MOUNT, SOLDER TAIL

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C		104062	APR 21,2022 REVISE TO CURRENT STANDARDS		JNC	FJR		
B		76546	NOV 08,2017 REVISE SHT 4		JNC	SC		
A		72044	MAR 06,2017 REVISE ELECTRICAL NOTES 3-2-17 REMOVED 2 CONNECTORS PRODUCTION RELEASE		JNC	TS		
DESIGN REFERENCE	NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS CODES			DRFT CASTIGLIONE	DATE FEB 23,2015	MFG DATE FEB 23,2015			
			CHKD	DATE	APPR. T. SUNIGA	DATE FEB 23,2015		
DIVISION		DIVISION CODE EMSD		© 3M COPYRIGHT 2022 3M Center St. Paul, MN 55144 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.				
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED		TITLE PIN STRIP HEADER, 2MM X 2MM, STRAIGHT, SMT & RA, SOLDER TAIL				
THIRD ANGLE PROJECTION		INCHES .0 ± .02 .00 ± .008 .000 ± .005 .0000 ± .0002		MILLIMETERS 0 ± .0 ± .00 ± .000 ±				
INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS ALL SURFACES ✓ □ MARKED ONLY		CAGE NUMBER D78-5100-2653-3		SIZE DRAWING NO. 78-5100-2653-3	REV. REV. C	
		ANGLES		MODEL 951XXX		DET LISTS YES NO SHT 5 OF 5		

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[951110-8622-AR](#) [951120-7622-AR](#) [951120-8622-AR](#) [951140-7622-AR](#) [951140-8622-AR](#) [951204-7622-AR](#) [951204-8622-AR](#) [951206-8622-AR](#) [951208-8622-AR](#) [951210-7622-AR](#) [951220-8622-AR](#) [951240-7622-AR](#) [951240-8622-AR](#)
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