

3M™ HIGH SPEED CARD-EDGE CONNECTOR, SPD08 SERIES
SURFACE MOUNT, WITH AND WITHOUT LATCH

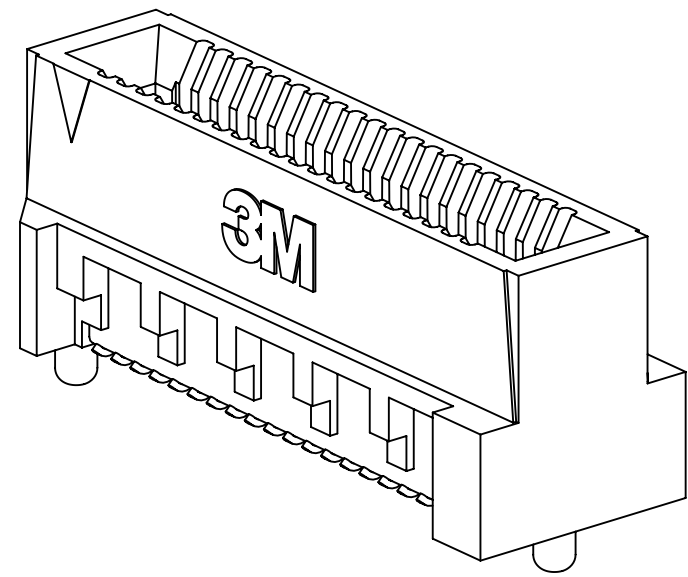


FIGURE 1
WITHOUT LATCH
POSITIONS: 020, 040 , 060

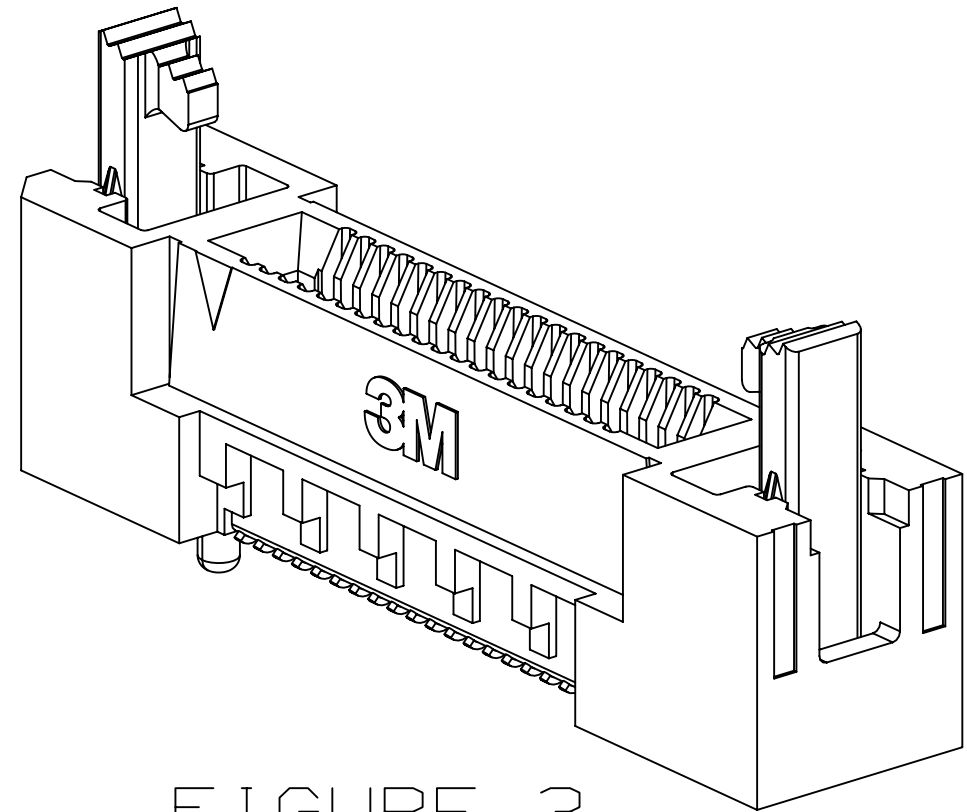


FIGURE 3
WITH LATCH
POSITIONS: 020, 040 , 060

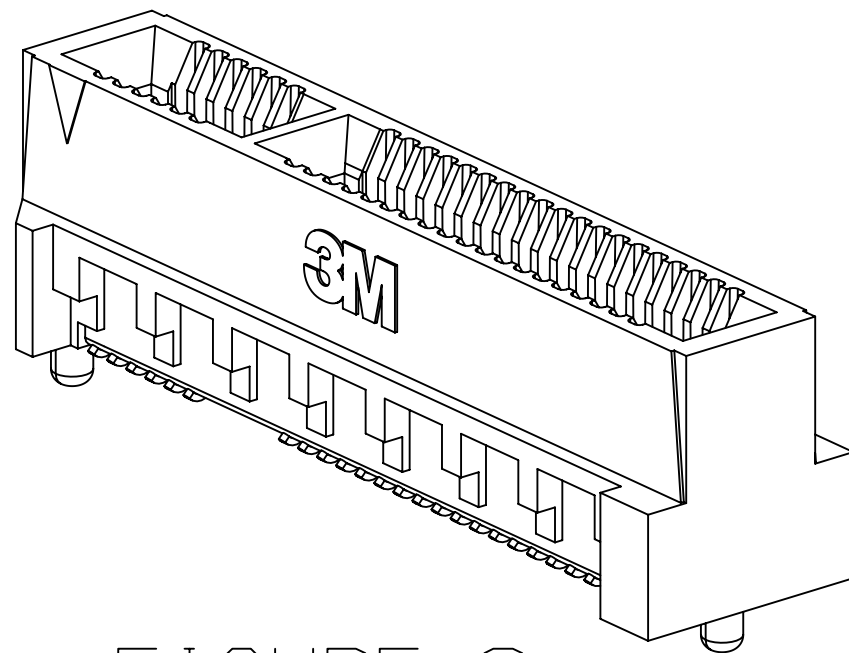


FIGURE 2
WITHOUT LATCH
POSITIONS: 050 ,080, 100,
120, 140, 160,
180, 200

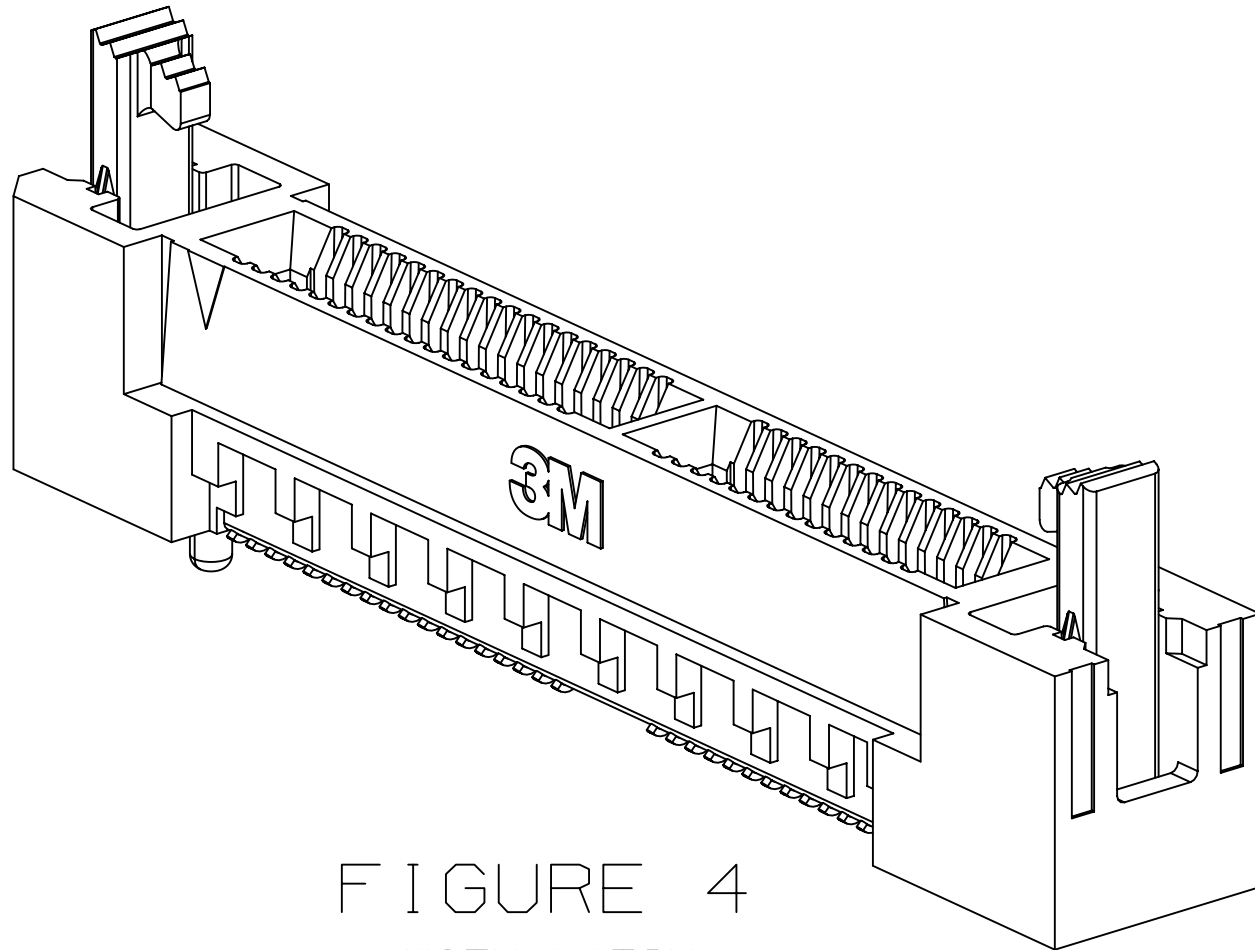


FIGURE 4
WITH LATCH
POSITIONS: 050 ,080, 100,
120, 140, 160,
180, 200

2 PHYSICAL :

HOUSING: MATERIAL: GLASS FILLED LCP
FLAMMABILITY: UL94V-0
COLOR: BLACK
LATCH: MATERIAL: GLASS FILLED LCP
FLAMMABILITY: UL94V-0
COLOR: BEIGE
CONTACT: MATERIAL: COPPER ALLOY
SOLDER TAB: MATERIAL: COPPER ALLOY
PLATING: UNDER PLATING: 1.27µm NICKEL ALL OVER
WIPING AREA: GOLD PLATING (SEE ORDERING INFORMATION)
SOLDER TAILS: 3-5µm MATTE TIN
MARKINGS: 3M LOGO, DATE CODE

2 ELECTRICAL :

CURRENT RATING: 3.0A, SINGLE CONTACT POWERED
1.2A, ALL CONTACTS POWERED
VOLTAGE RATING: 250V AC
CONTACT RESISTANCE: 20mΩ MAX.
CHARACTERISTIC IMPEDANCE: FOR USE WITH 100Ω OR
85Ω DIFFERENTIAL-PAIR SYSTEMS, OR
50Ω SINGLE-ENDED SYSTEMS.
BANDWIDTH: 15Gbps (RATED @ -3dB INSERTION LOSS,
30mm STACK HEIGHT
BOARD TO BOARD APPLICATION)

2 ENVIRONMENTAL :

TEMPERATURE RATING: -55° C TO +125° C
PROCESS RATING: 260° C MAX. (PER J-STD-020C)
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)

1. REGULATORY INFORMATION:
VISIT 3M.com/regs
OR CONTACT YOUR 3M REPRESENTATIVE
TO FIND THE RoHS COMPLIANCE STATUS
OF THE 3M PART YOU ARE INTERESTED IN.
2. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
3. RECOMMENDED PACKAGING:
WITHOUT LATCH OPTION:
20-160 POSITION = T & R.
180-200 POSITION = TRAY.
- WITH LATCH OPTION:
20-120 POSITION = T & R.
140-200 POSITION = TRAY.

ORDERING INFORMATION

SPD08-XXX-X-XX XX

PRODUCT NAME:

NUMBER OF POSITIONS:
SEE FIG. 1 AND 3 FOR
020, 040, 060

SEE FIG. 2 AND 4 FOR
050 ,080, 100, 120, 140, 160,
180, 200

PACKAGING OPTION"

BLANK = TRAY
TR = TAPE & REEL

PLATING OPTION:
RB = 0.76µm MIN. GOLD
RC = 0.38µm MIN. GOLD
RA = 0.25µm MIN. GOLD

LATCHING OPTION:
BLANK= W/O LATCH (SEE FIG. 1, 2)
L = WITH LATCH (SEE FIG. 3, 4)

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Transportation and Electronics Business Group (TEBG)
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C	1621	JUL 08,2026	JNC	FJR
B	48241	JUL 16,2013	KL1UKLIU	
A	37394	MAY 11,2011	KL1UKLIU	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	K. D. LIU	DATE MAY 11,2011	DATE	
CHKD		DATE	APPRVL	DATE
DESIGN REFERENCE	NEXT ASSEMBLY			
AXES		DIVISION CODE		
CODES		DEPP		
DIVISION		DO NOT SCALE DRAWING		
		SCALE		
		TOLERANCES EXCEPT AS NOTED		
		INCHES		
		.0		
		.00		
		.008		
		.000		
		.0000		
		MILLIMETERS		
		0		
		±0.5		
		0		
		±0.20		
		0.00		
		±0.10		
		.000		
		±0.05		
		ANGLES		
		MARKED ONLY		
		INTERPRET PER ASME Y14.5 - 2018		
		MAX. SURFACE ROUGHNESS		
		ALL SURFACES		
		MARKED ONLY		
		TITLE		
		HIGH SPEED CARD EDGE CONNECTOR, 0.8 MM PITCH, SMT, SPD08		
		CAGE NUMBER	SIZE	DRAWING NO.
		D	78-5100-2420-7	C
		MODEL	SPD08	REV.
		LISTS	YES	NO
		SHT	1	OF 6

3M™ HIGH SPEED CARD-EDGE CONNECTOR, SPD08 SERIES
SURFACE MOUNT, WITH AND WITHOUT LATCH

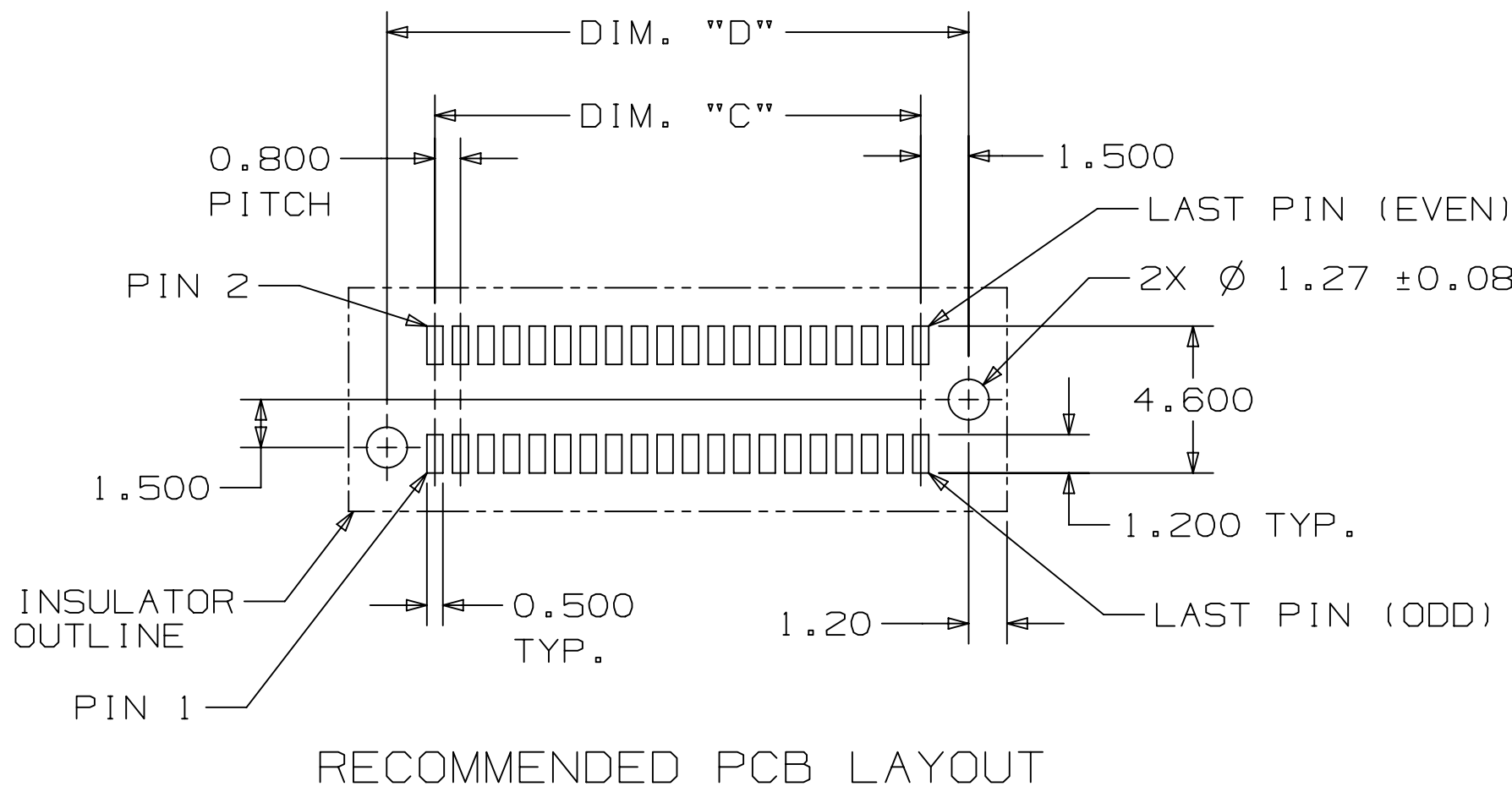
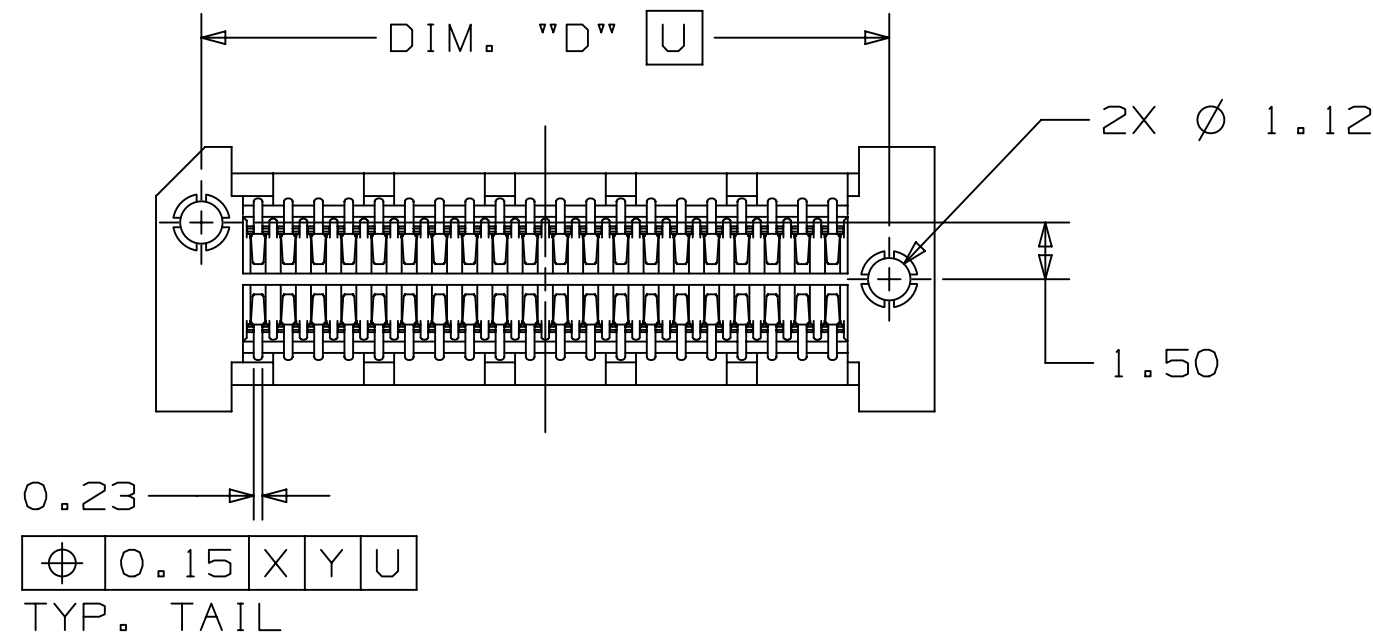
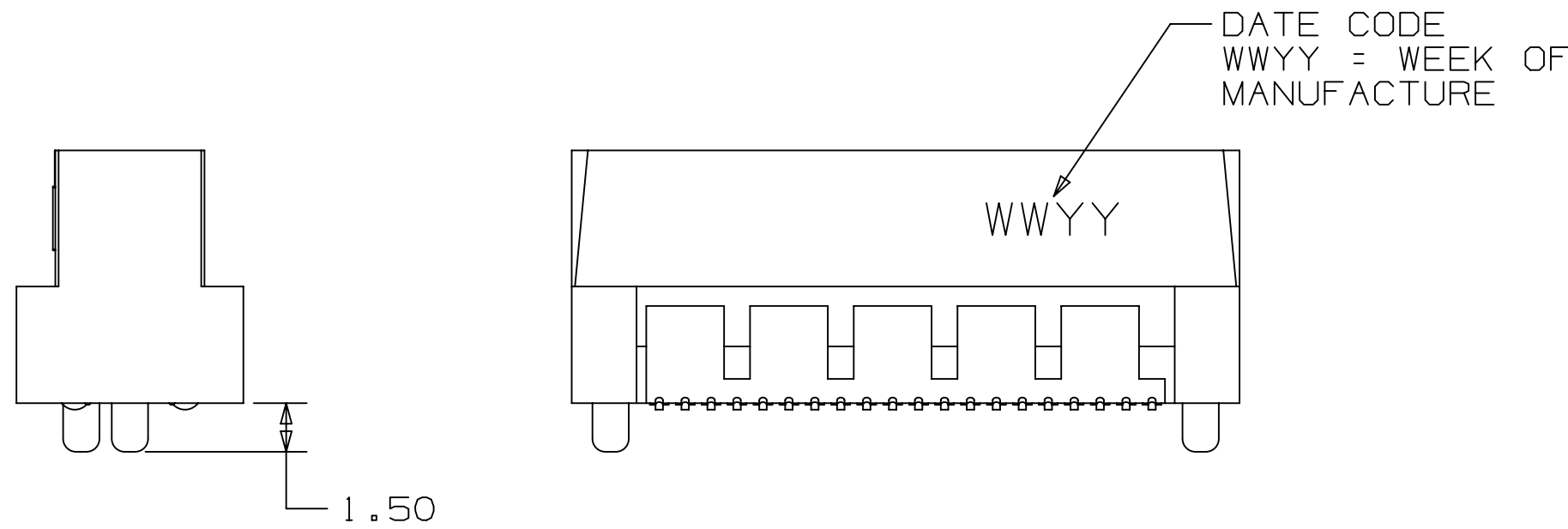
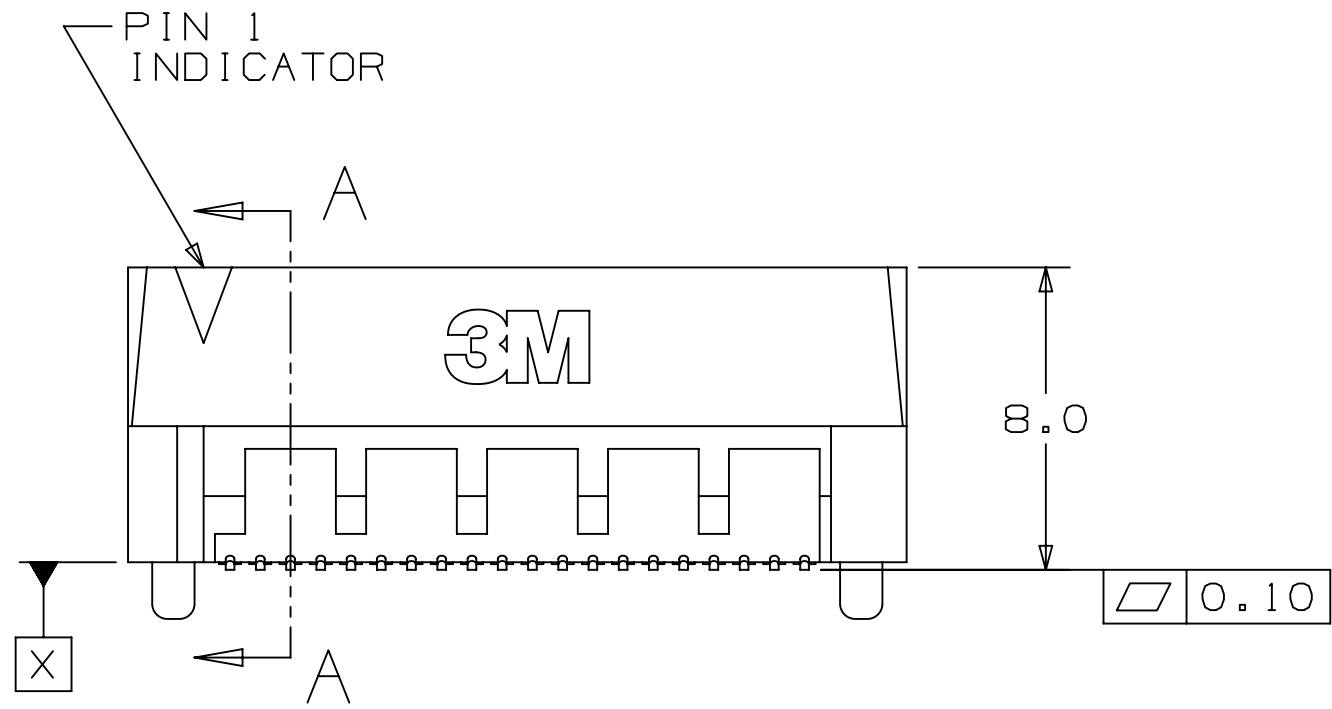
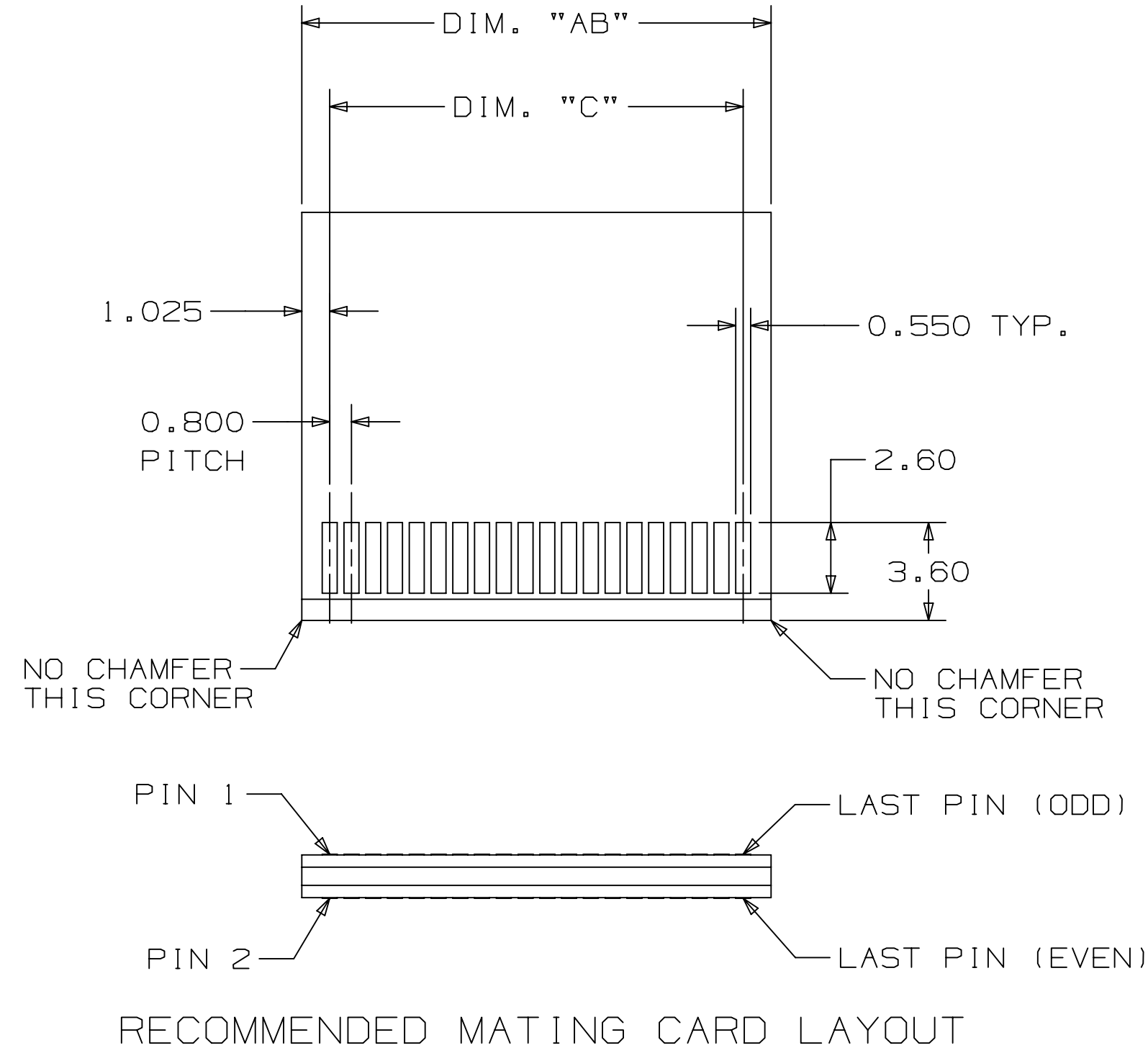
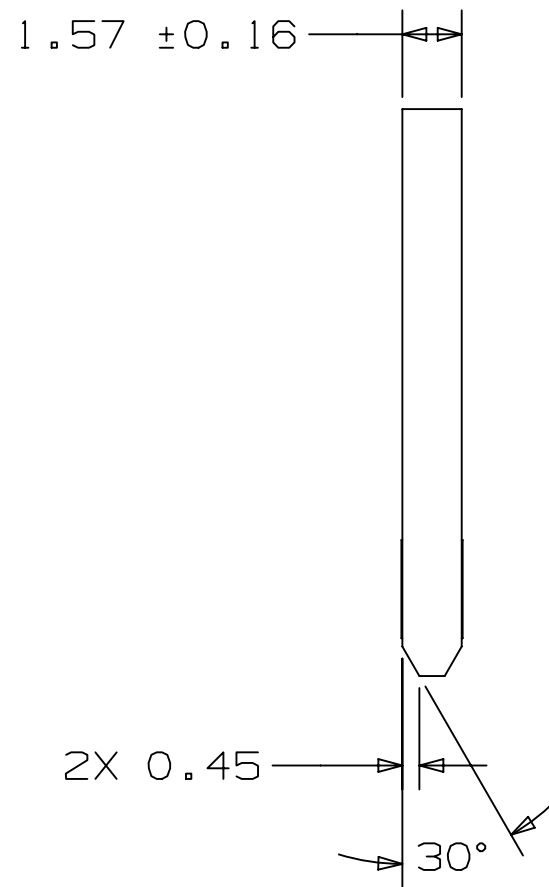
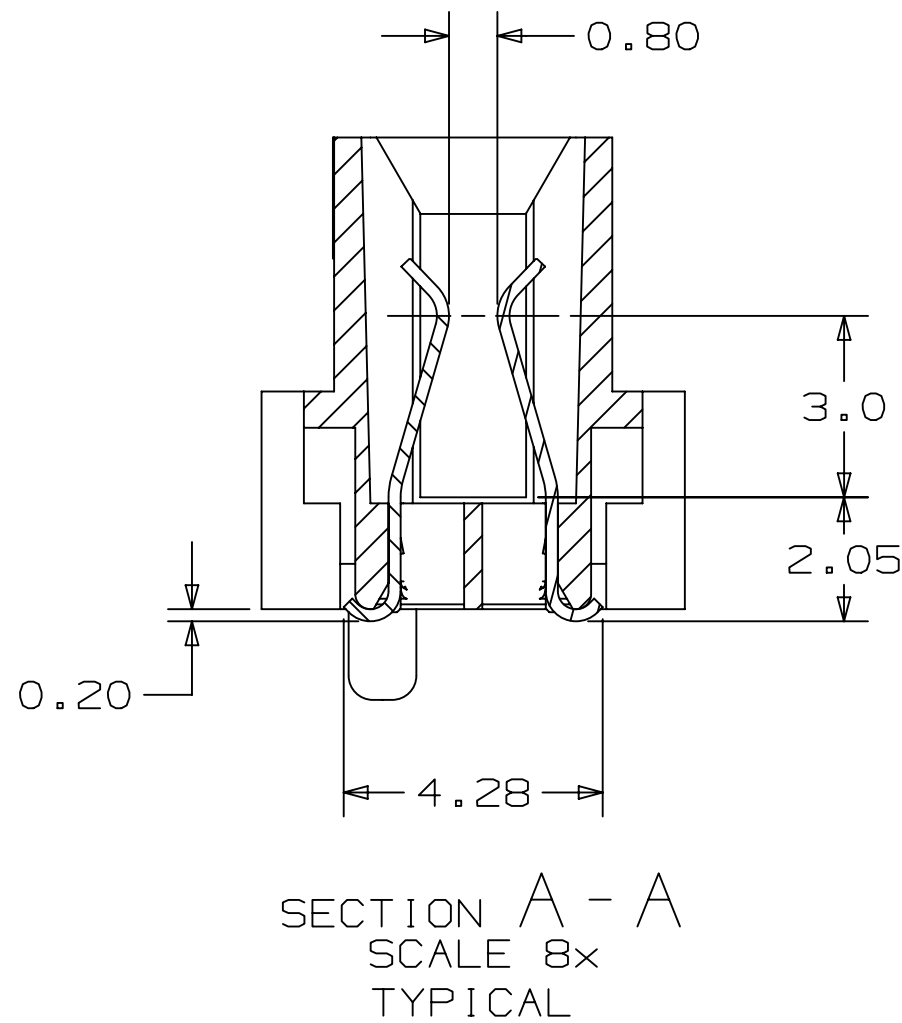
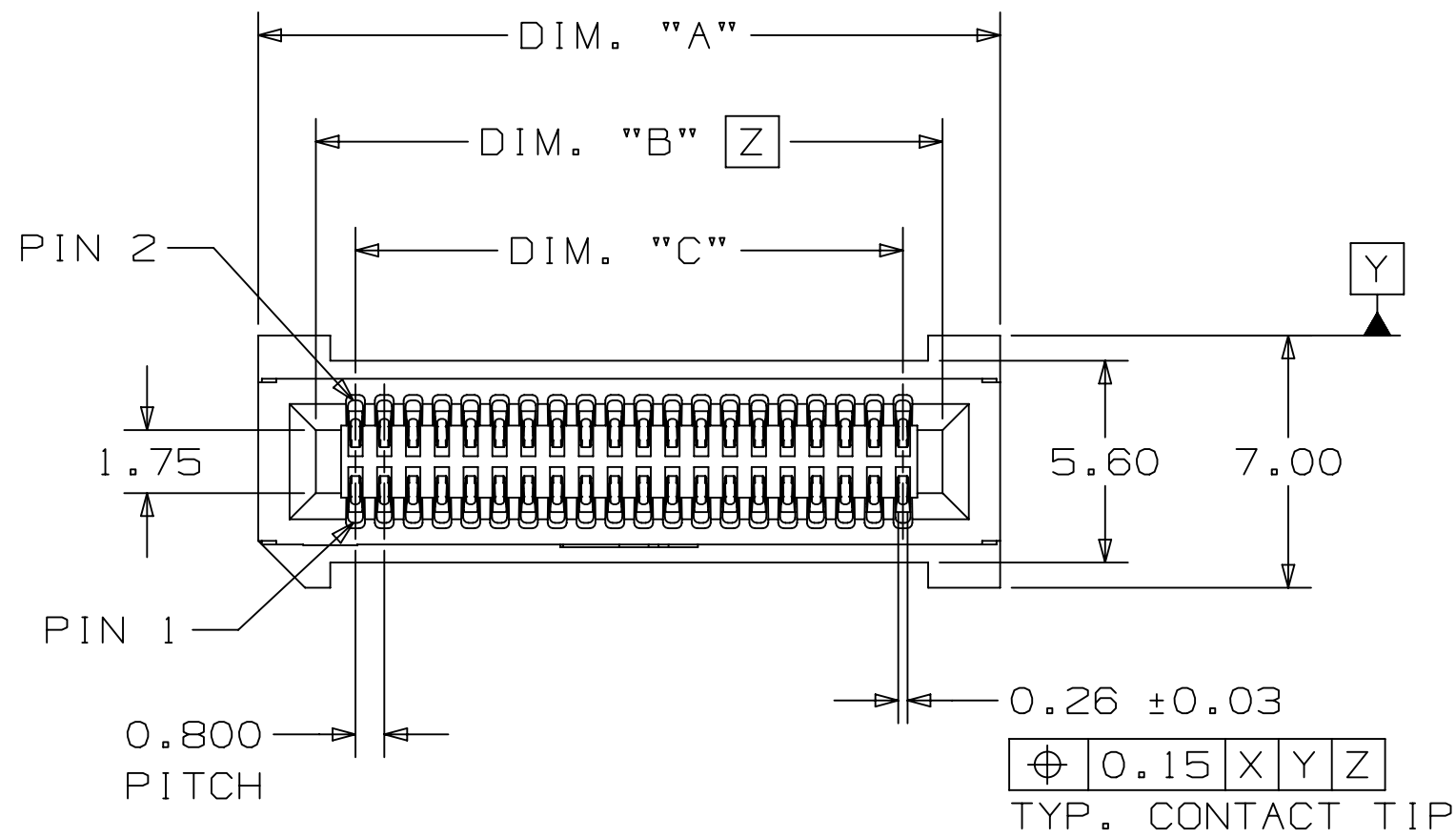
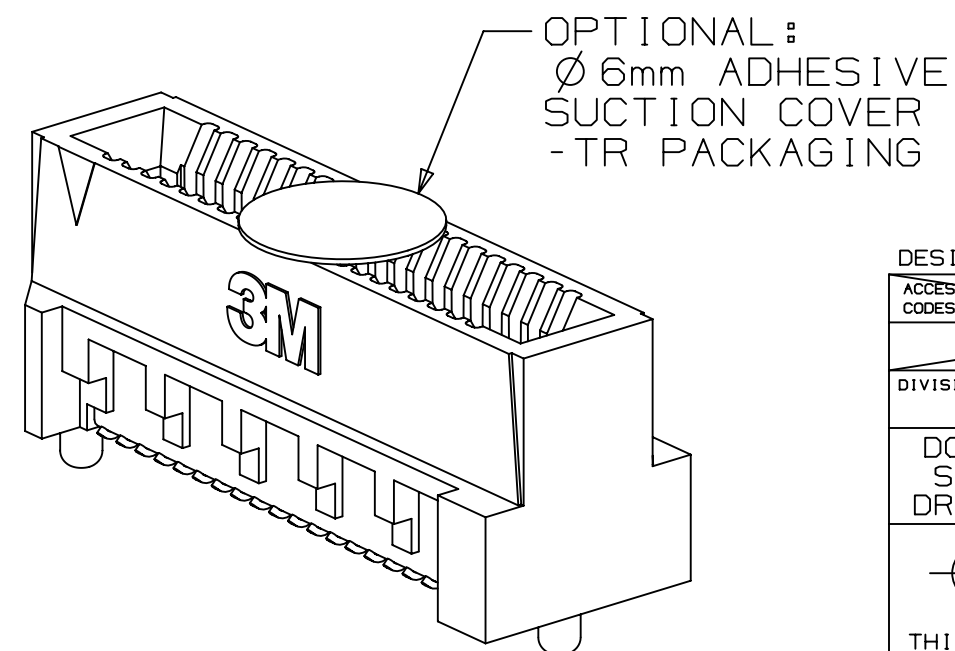


FIGURE 1

TABLE 1					
CONNECTORS WITHOUT LATCH					
POSITION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "AB"
020	12.60	9.40	7.200	10.20	9.25
040	20.60	17.40	15.200	18.20	17.25
060	28.60	25.40	23.200	26.20	25.25



DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXXX	XXXXXX	1	0	MAY 11, 2011		
DIVISION	DIVISION CODE	CHKD	APPR	DATE	DATE	DATE
DO NOT SCALE DRAWING	SCALE	DEPP				
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED					
INTERPRET PER ASME Y14.5 - 2018	INCHES					
MAX. SURFACE ROUGHNESS	MILLIMETERS					
MARKED ONLY	ANGLES					

3M Center St. Paul, MN 55144

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TITLE	3M	DATE	REV.
HIGH SPEED CARD EDGE CONNECTOR, 0.8 MM PITCH, SMT, SPD08			
CAGE NUMBER	SIZE	DRAWING NO.	REV.
D	78-5100-2420-7	C	
MODEL	SPD08	LISTS	YES NO

SHT 2 OF 6

3M™ HIGH SPEED CARD-EDGE CONNECTOR, SPD08 SERIES
SURFACE MOUNT, WITH AND WITHOUT LATCH

D

C

B

A

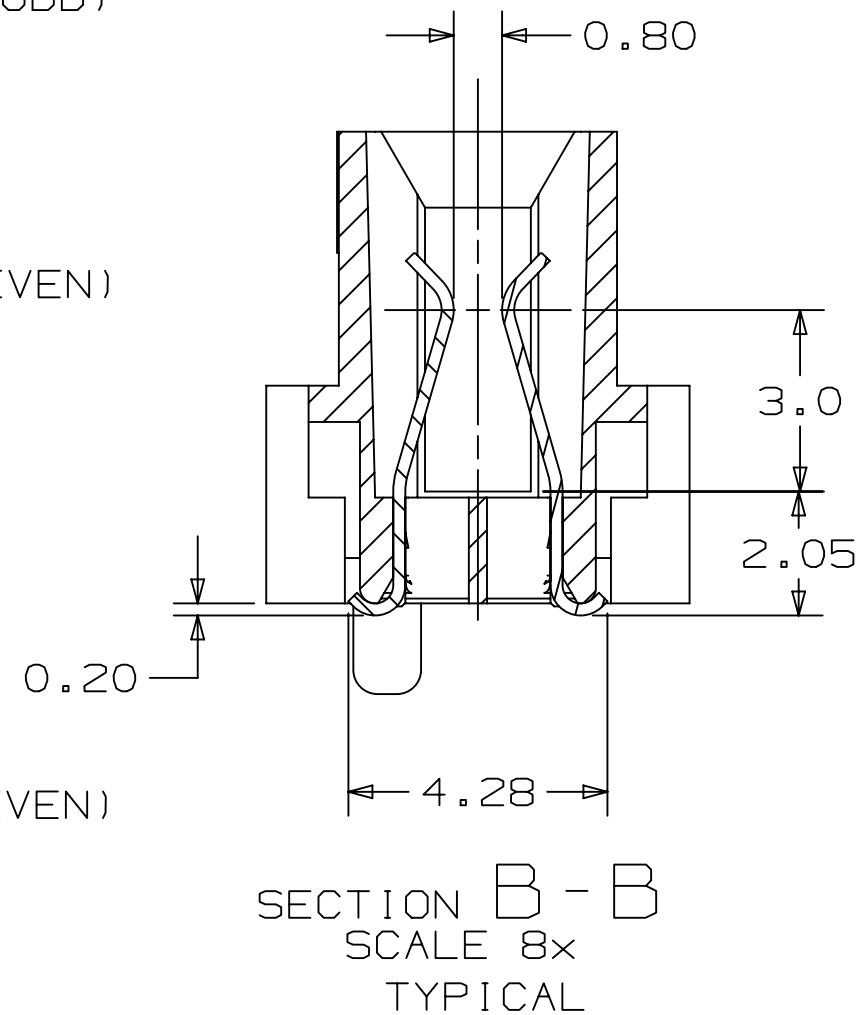
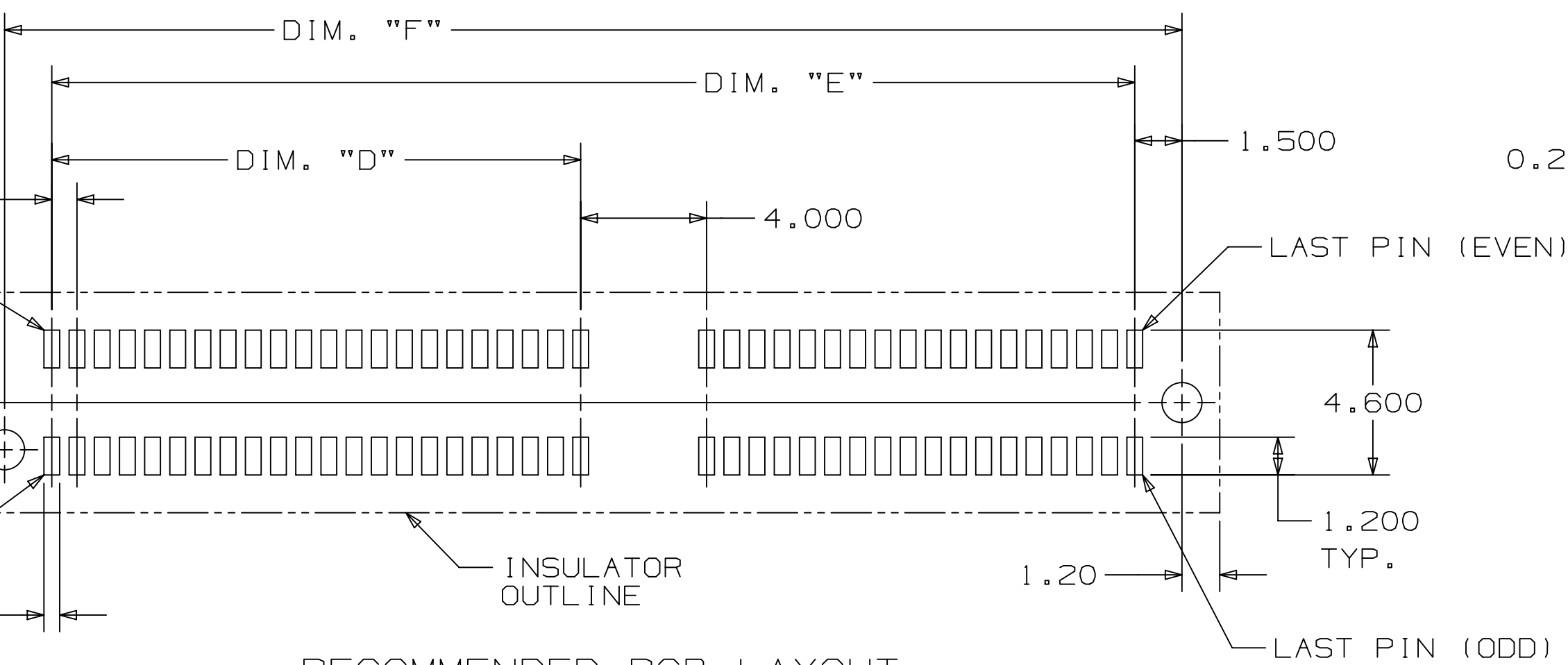
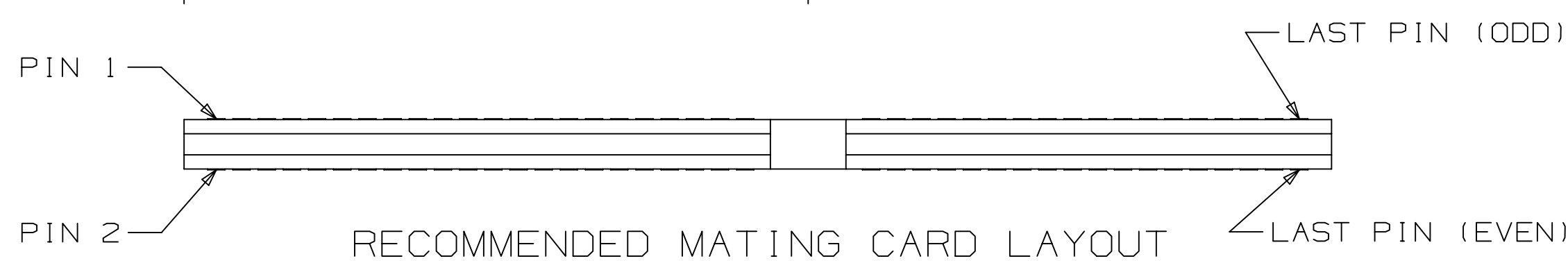
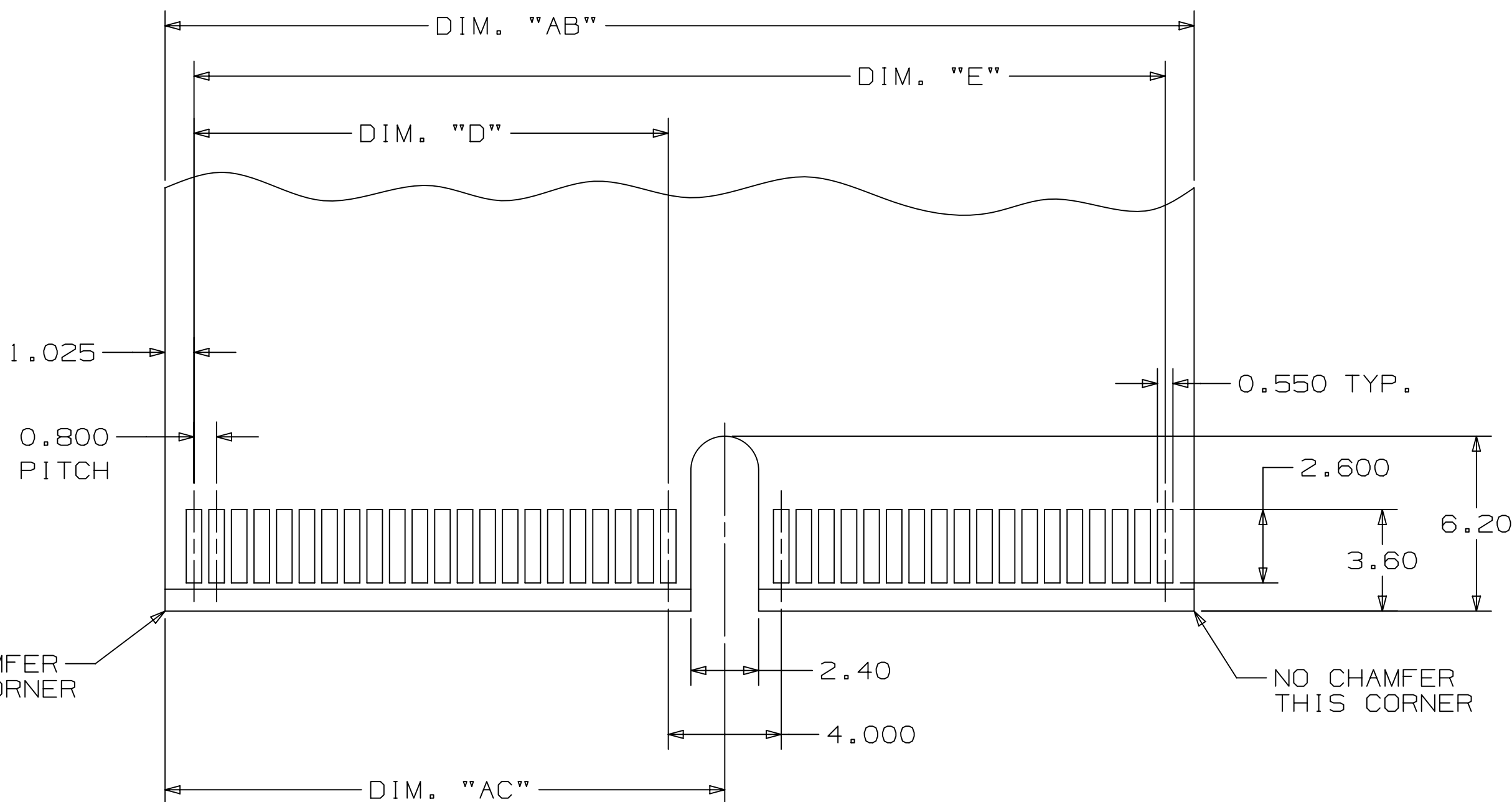
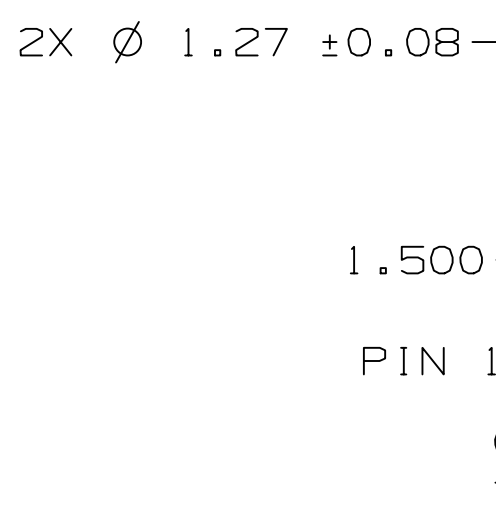
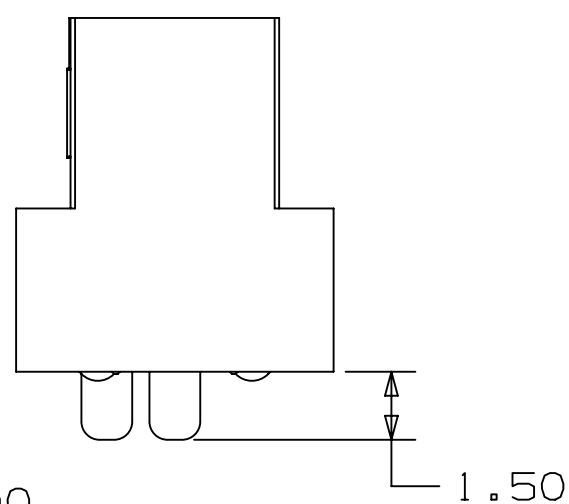
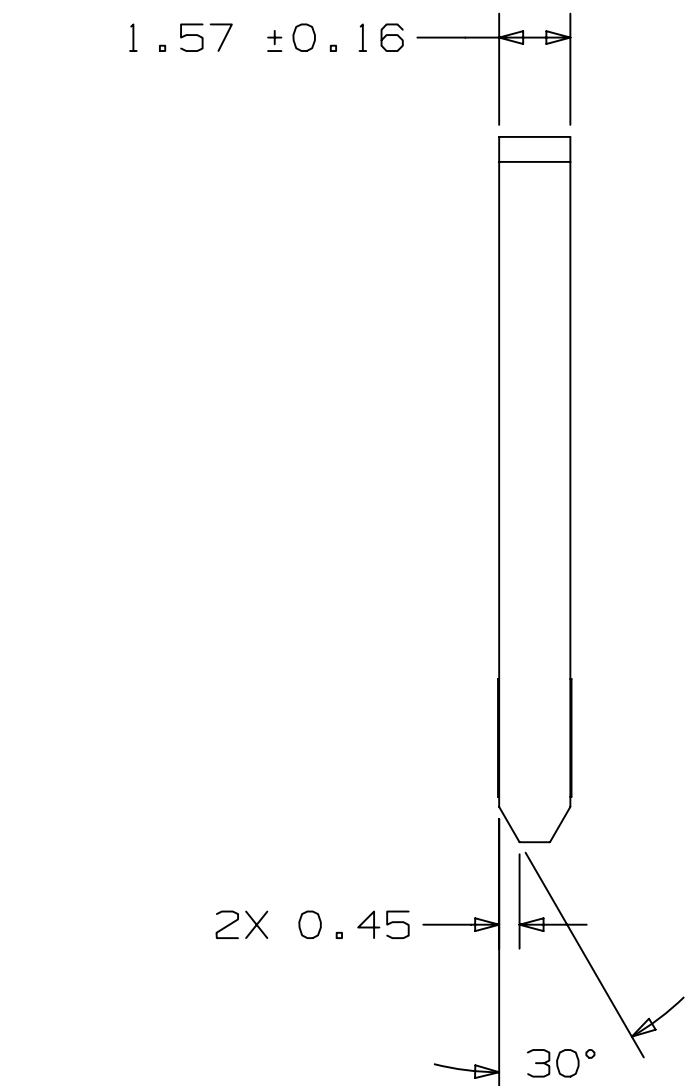
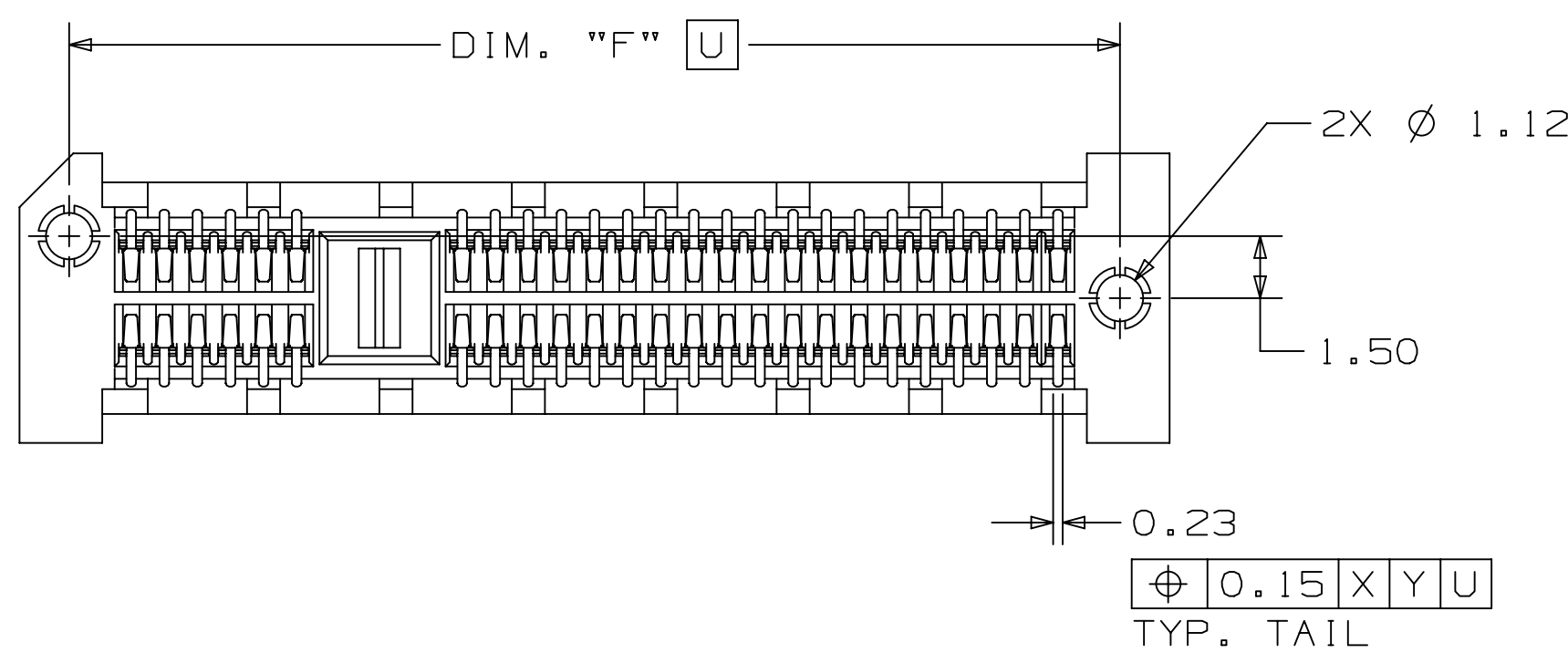
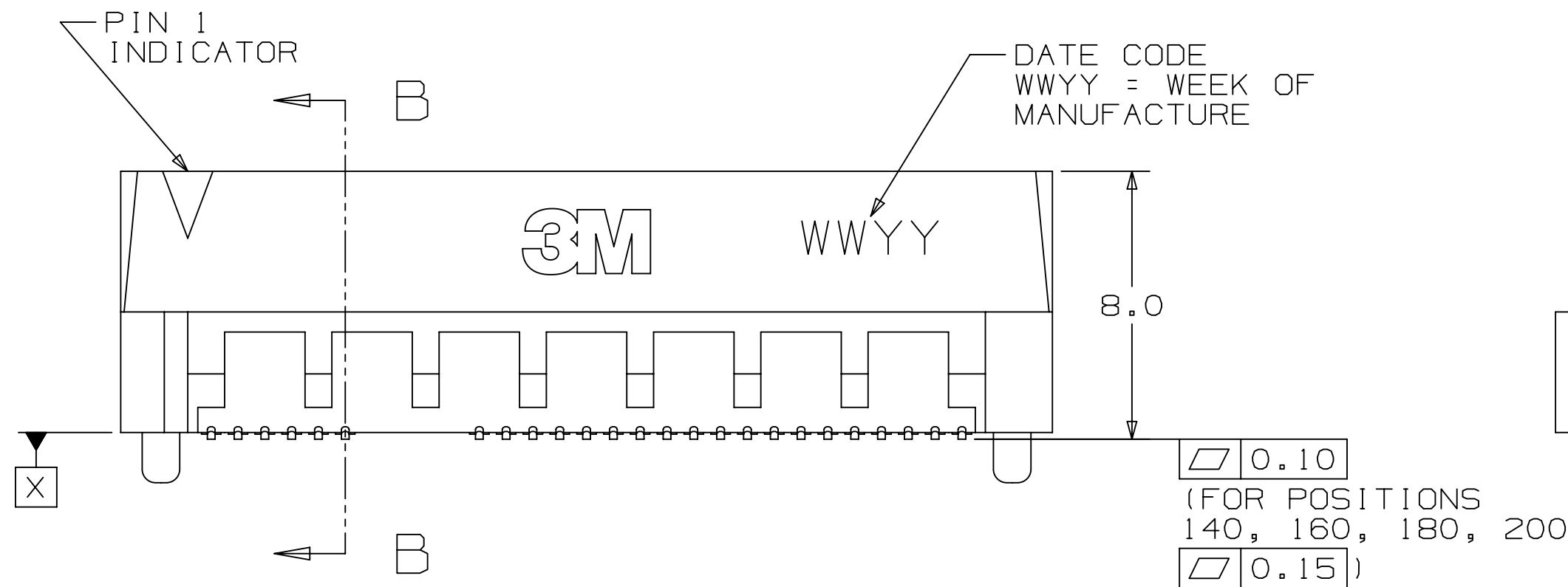
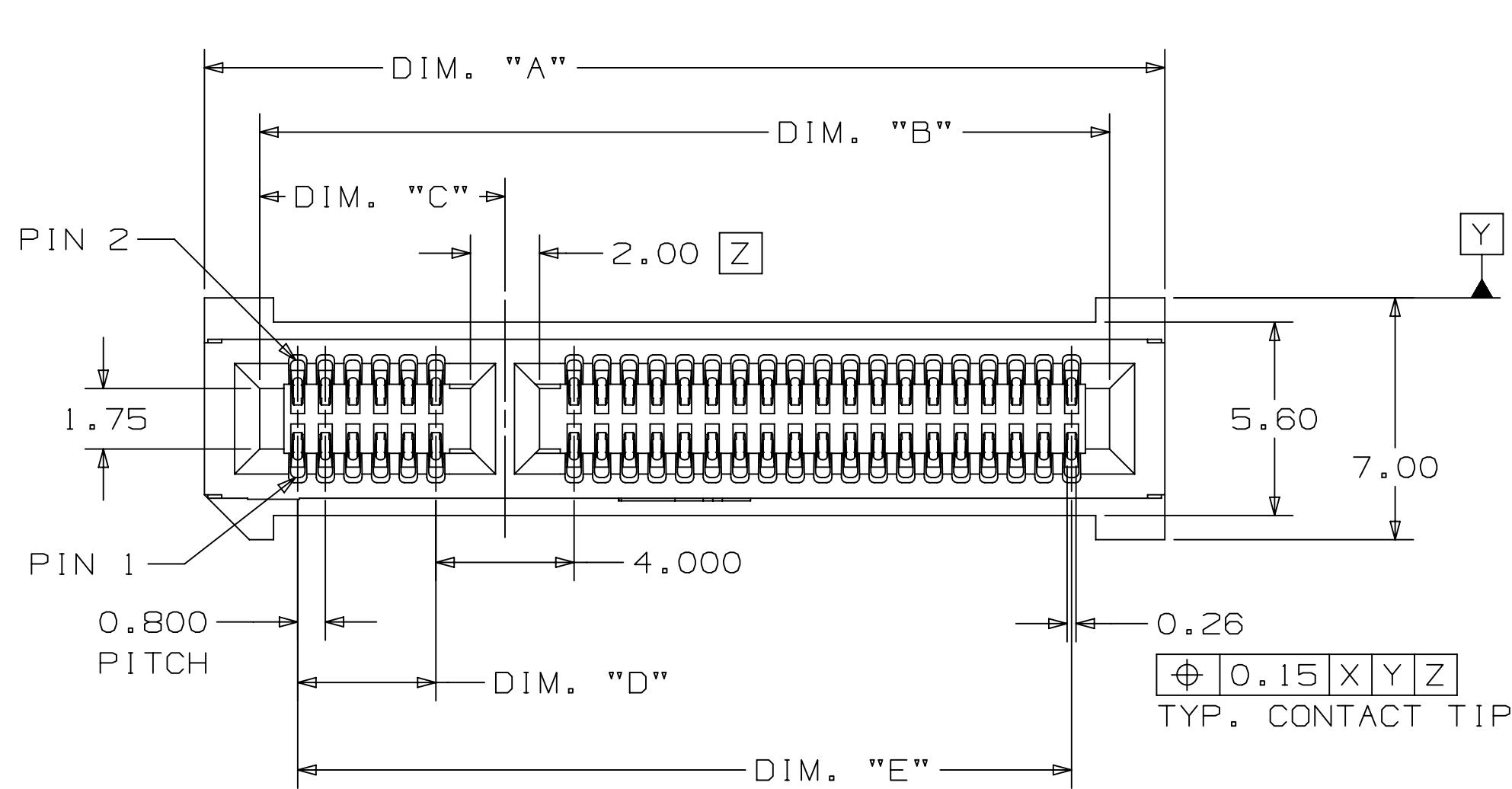
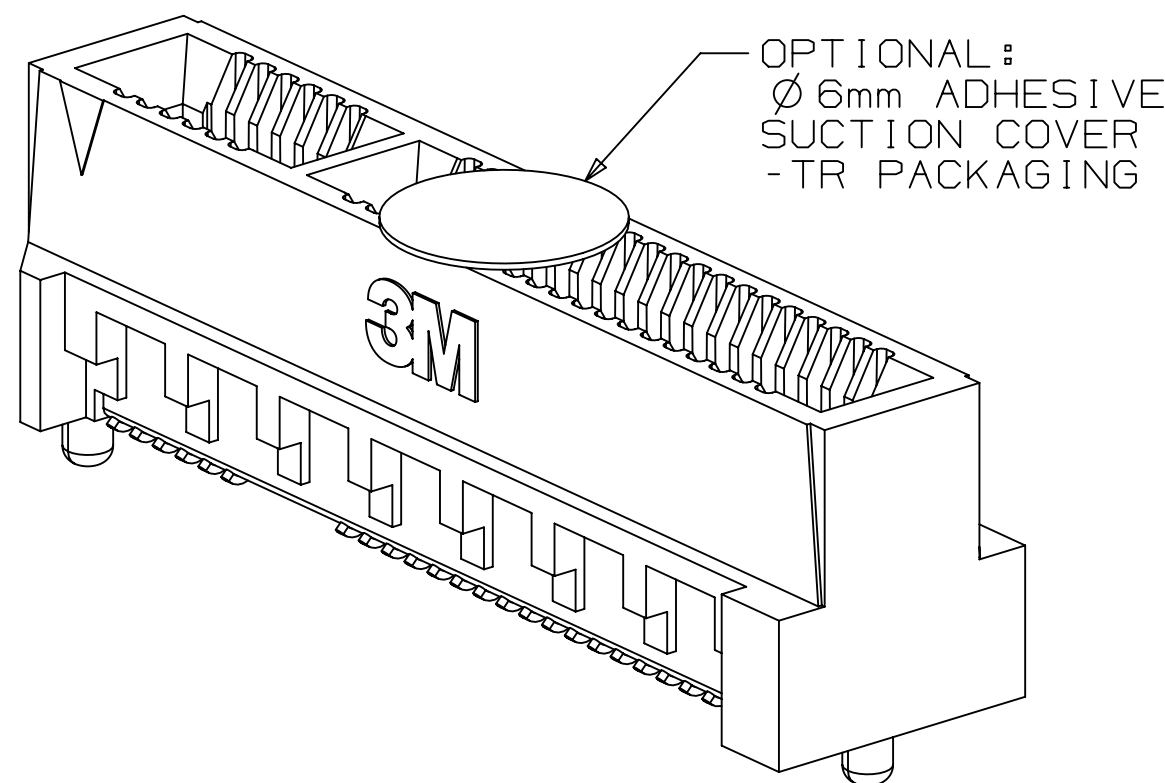


FIGURE 2

TABLE 2								
CONNECTORS WITHOUT LATCH								
POSITION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "AB"	DIM. "AC"
050	27.80	24.60	7.10	4.000	22.400	25.40	24.45	7.025
080	39.80	36.60	19.90	16.800	34.400	37.40	36.45	19.825
100	47.80	44.60	23.90	20.800	42.400	45.40	44.45	23.825
120	55.80	52.60	27.90	24.800	50.400	53.40	52.45	27.825
140	63.80	60.60	27.90	24.800	58.400	61.40	60.45	27.825
160	71.80	68.60	27.90	24.800	66.400	69.40	68.45	27.825
180	79.80	76.60	27.90	24.800	74.400	77.40	76.45	27.825
200	87.80	84.60	27.90	24.800	82.400	85.40	84.45	27.825



DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXXX	XXXXXX	K.	D.	L.I.U.	MAY 11, 2011	MFG
DIVISION	DIVISION CODE	DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED	INCHES	MILLIMETERS
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MAX. SURFACE ROUGHNESS	ALL SURFACES	MARKED ONLY	ANGLES	REV.
CAGE NUMBER	SIZE	DRAWING NO.	MODEL	SPD08	LISTS	YES
1621	48241	37394	78-5100-2420-7	C	JNC	FJR
JUL 08, 2026	JUL 16, 2013	MAY 11, 2011	PRODUCTION RELEASE	REVISION	DATE	DATE
1621	48241	37394	78-5100-2420-7	C	JNC	FJR
JUL 08, 2026	JUL 16, 2013	MAY 11, 2011	PRODUCTION RELEASE	REVISION	DATE	DATE
1621	48241	37394	78-5100-2420-7	C	JNC	FJR
JUL 08, 2026	JUL 16, 2013	MAY 11, 2011	PRODUCTION RELEASE	REVISION	DATE	DATE

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78-5100-2420-7
DRAWING NUMBER

B

A

6

3M™ HIGH SPEED CARD-EDGE CONNECTOR, SPD08 SERIES

SURFACE MOUNT, WITH AND WITHOUT LATCH

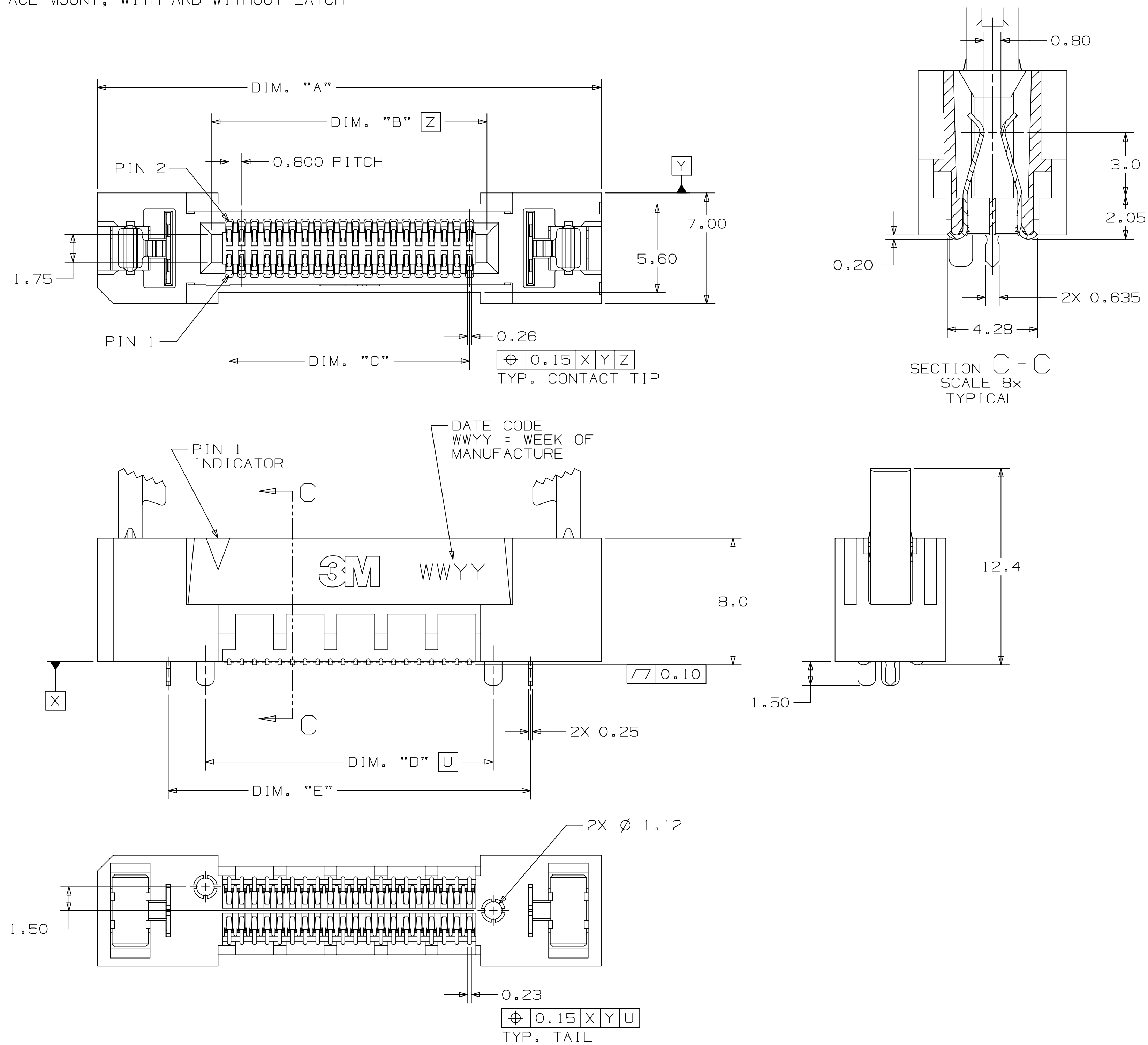
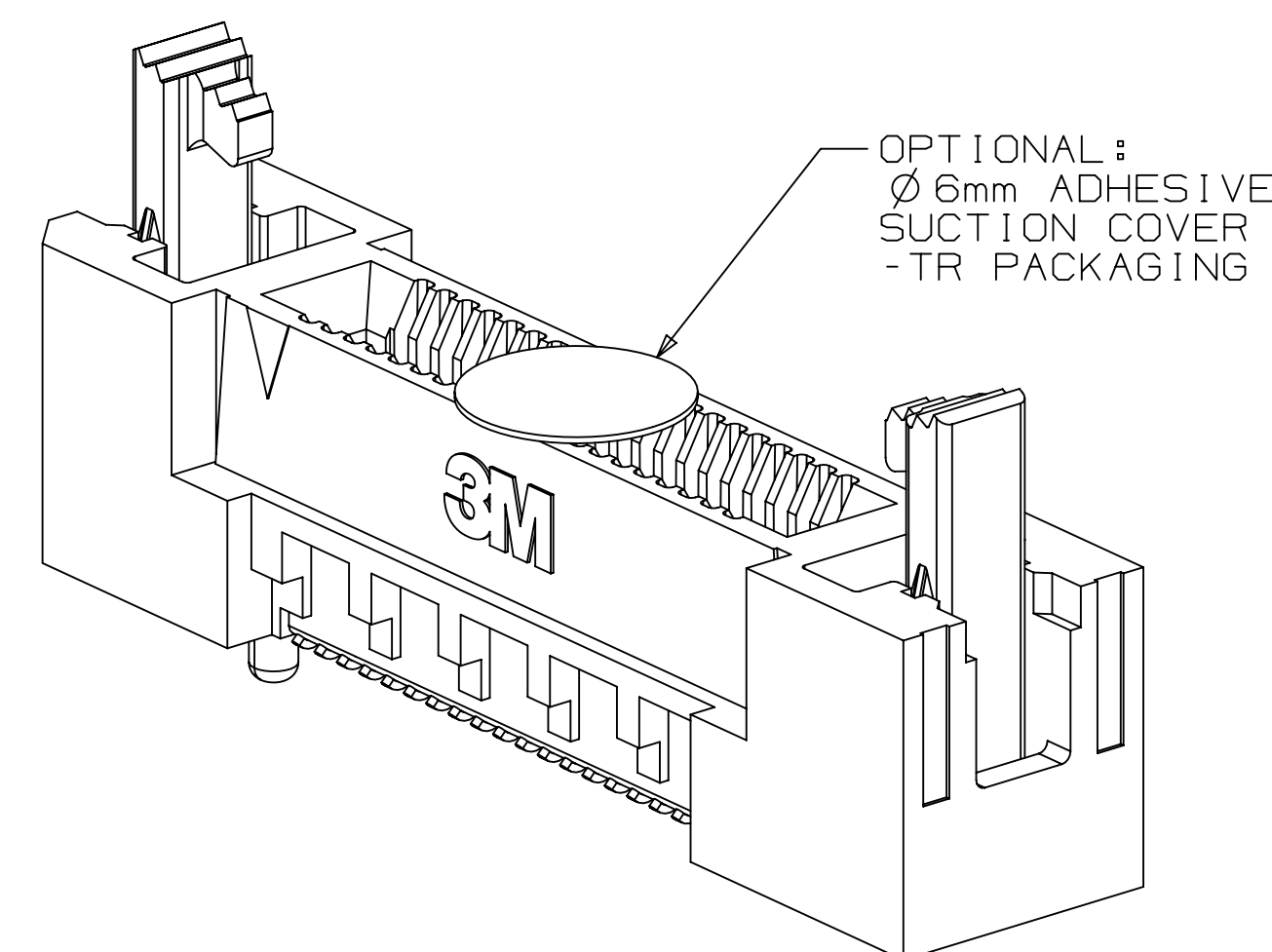
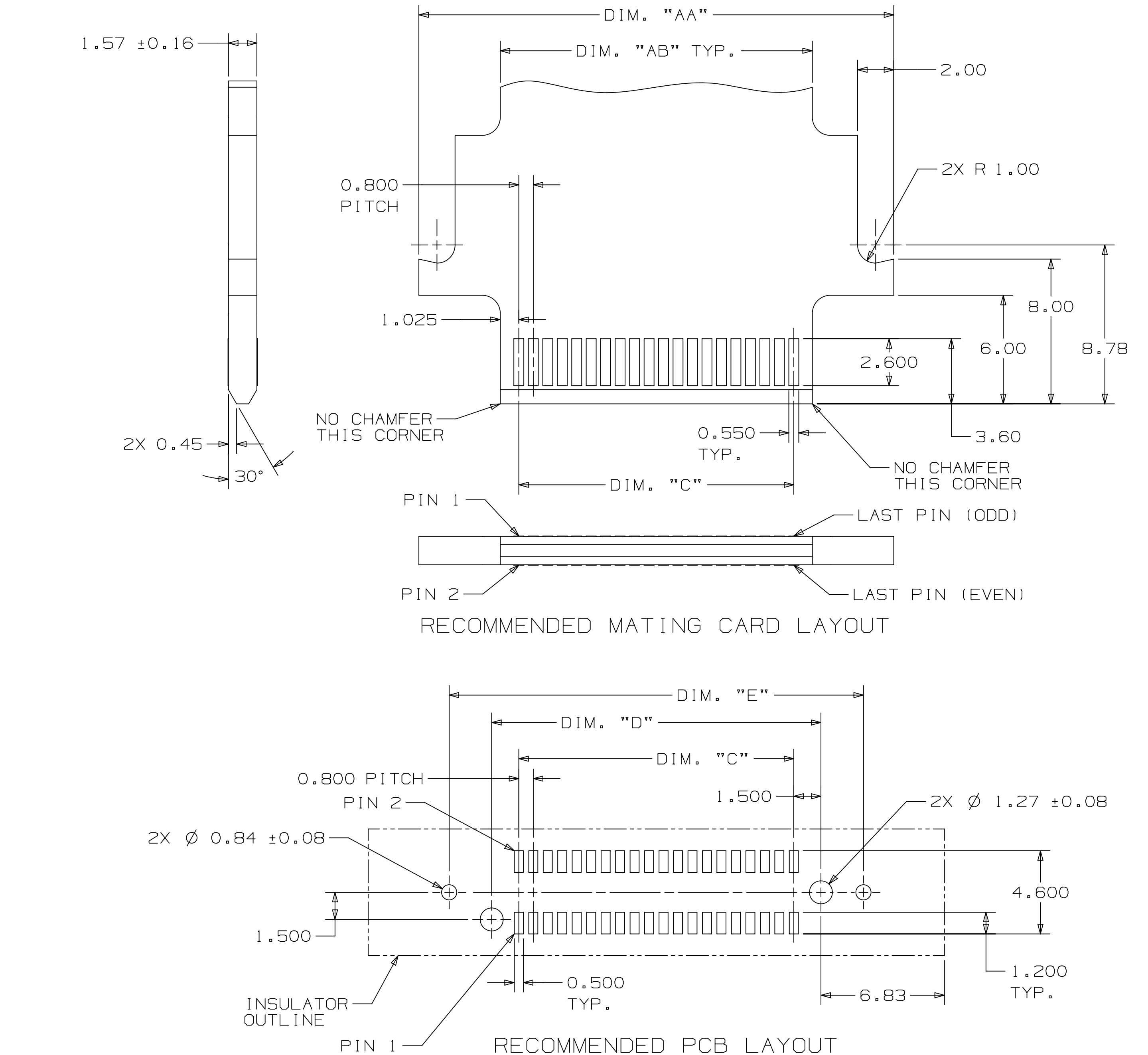


FIGURE 3

POSITION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "AA"	DIM. "AB"
020	23.85	9.40	7.200	10.20	14.90	18.25	9.25
040	31.85	17.40	15.200	18.20	22.90	26.25	17.25
060	39.85	25.40	23.200	26.20	30.90	34.25	25.25

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C		1621	JUL 08,2016		JNC	FJR
B		48241	REDRAW & REVISE MODELS		KLIU KLIU	
A		37394	JUL 16,2013 REVISED DRAWING		KLIU KLIU	
REV		ECO	MAY 11,2011 PRODUCTION RELEASE		DRFT	CHKD
DESIGN REFERENCE		NEXT ASSEMBLY		ISSUE DATE AND DESCRIPTION	DRFT	
ADDRESS CODES		DRFT K. D. LIU		DATE MAY 11,2011	MFG DATE	
		CHKD		DATE	APPLY DATE	
DIVISION		DIVISION CODE		DATE		
DO NOT SCALE		TOLERANCES EXCEPT AS NOTED		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.		
DRAWING		INCHES		TITLE		
THIRD ANGLE PROJECTION		.0 + .00 ± .000 ± .0000 ±		HIGH SPEED CARD EDGE CONNECTOR, 0.8 MM PITCH, SMT, SPD08		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		CAGE NUMBER		
☒ ALL SURFACES ☐ MARKED ONLY		.0 ±0.20 .00 ±0.10 .000 ±0.05		SIZE DRAWING NO.		
		ANGLES		D 78-5100-2420-7		
		MODEL		REV.		
		SPD08		DET. LISTS ☐ YES ☒ NO		
				SHT 4 OF 4		

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SURFACE MOUNT, WITH AND WITHOUT LATCH

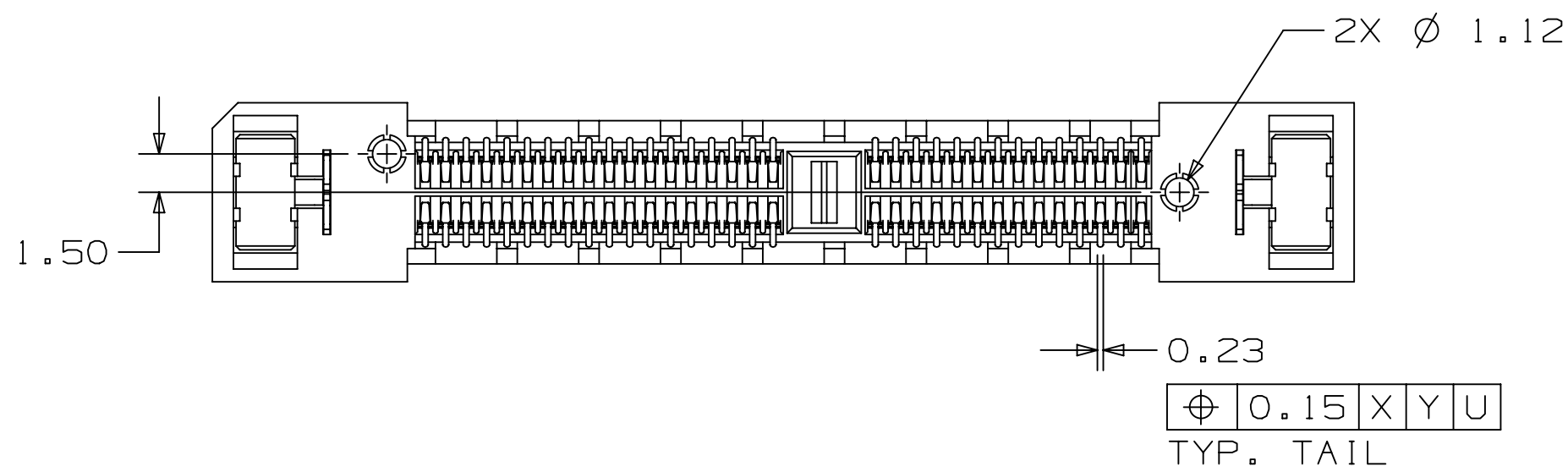
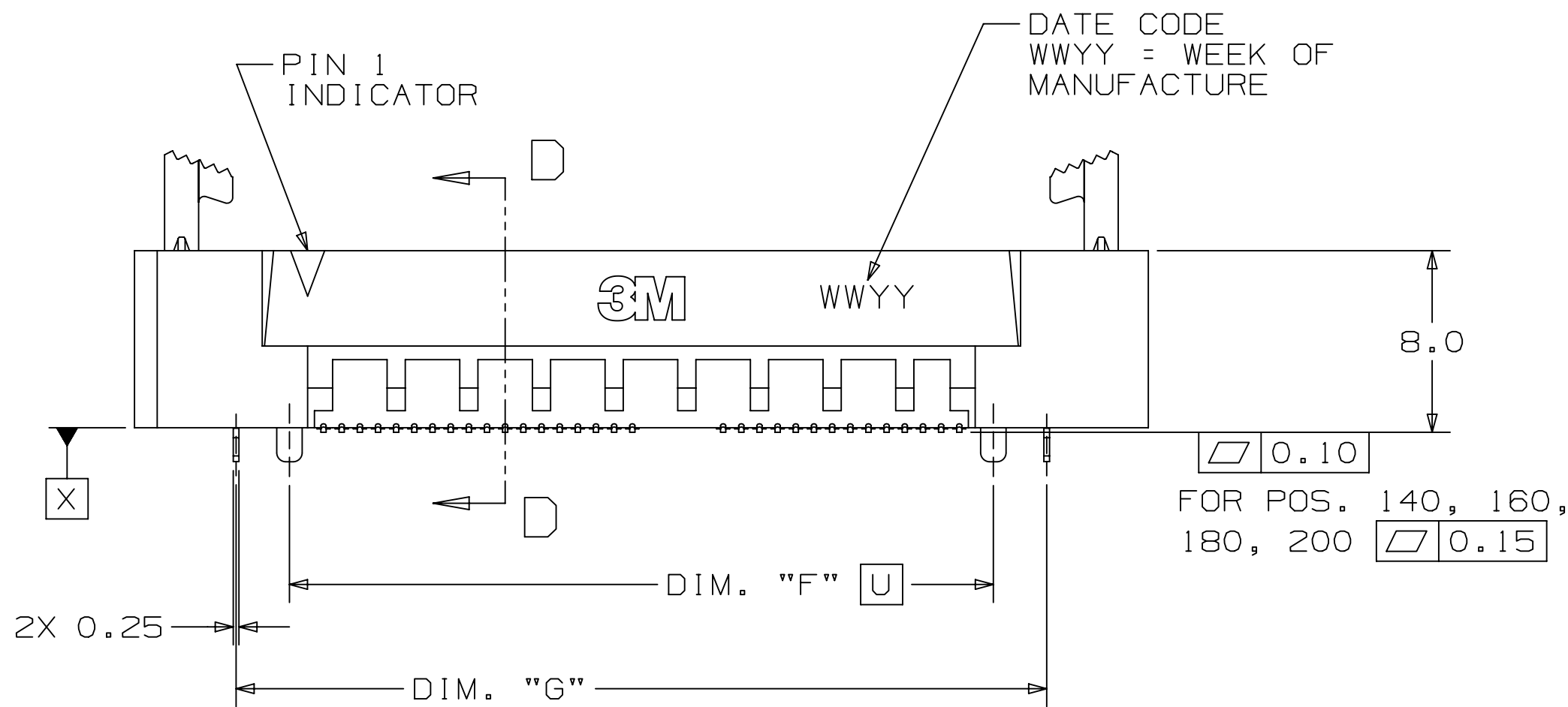
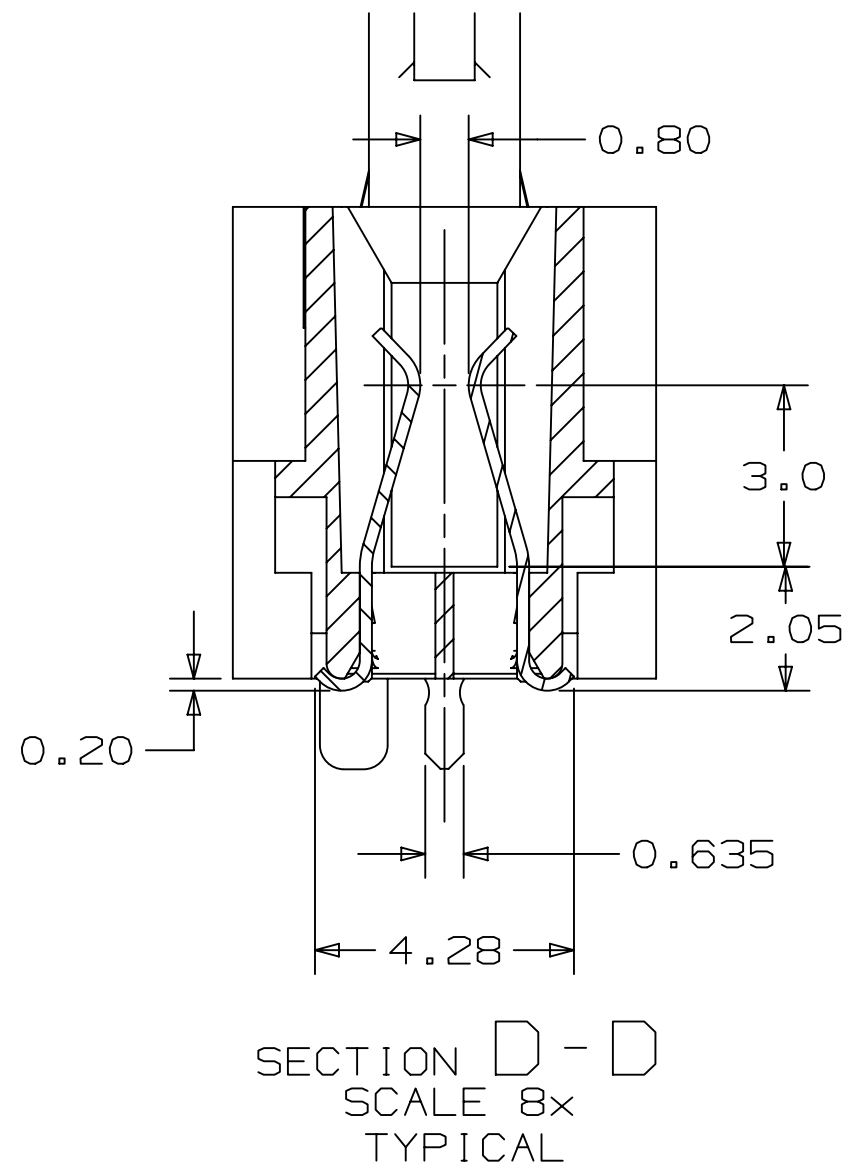
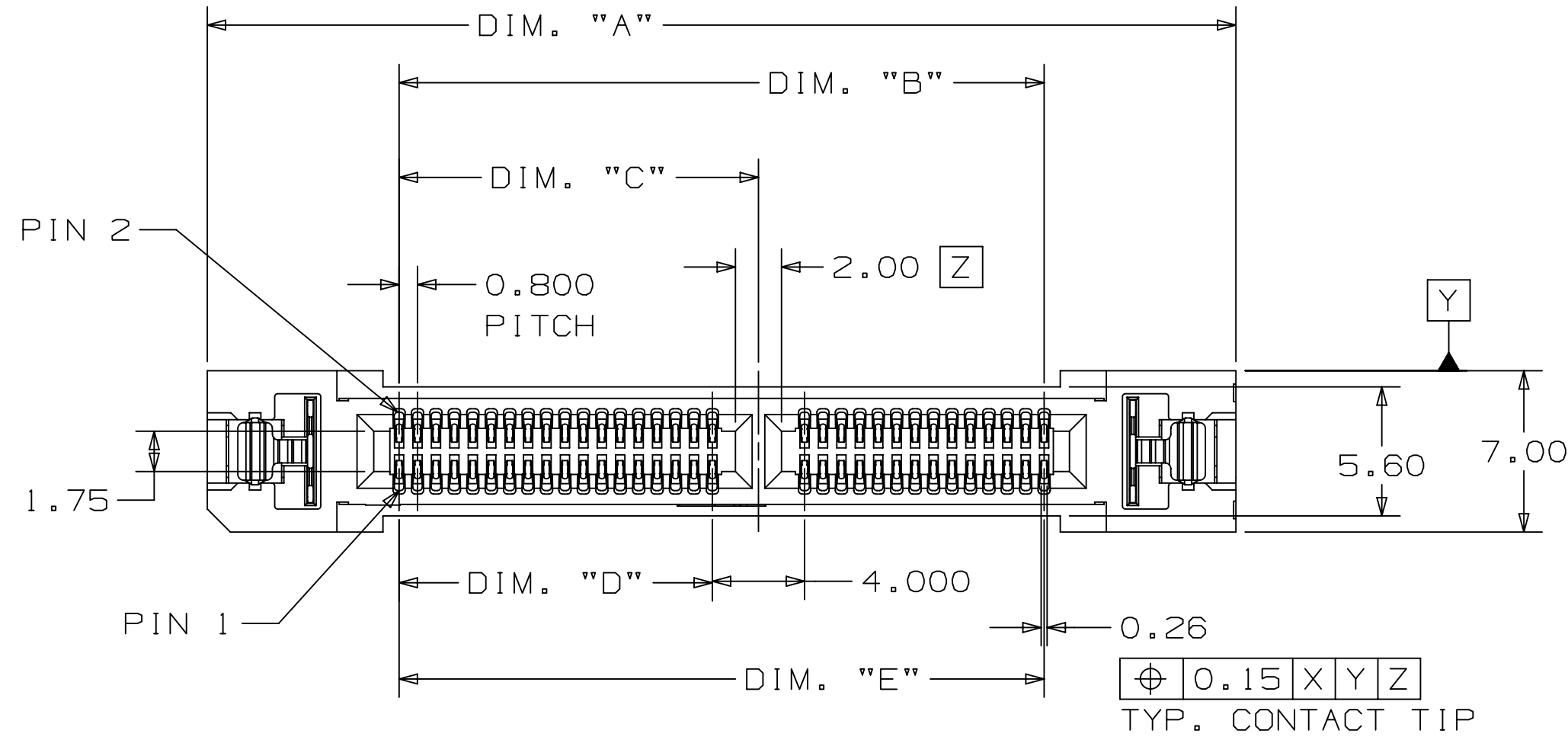


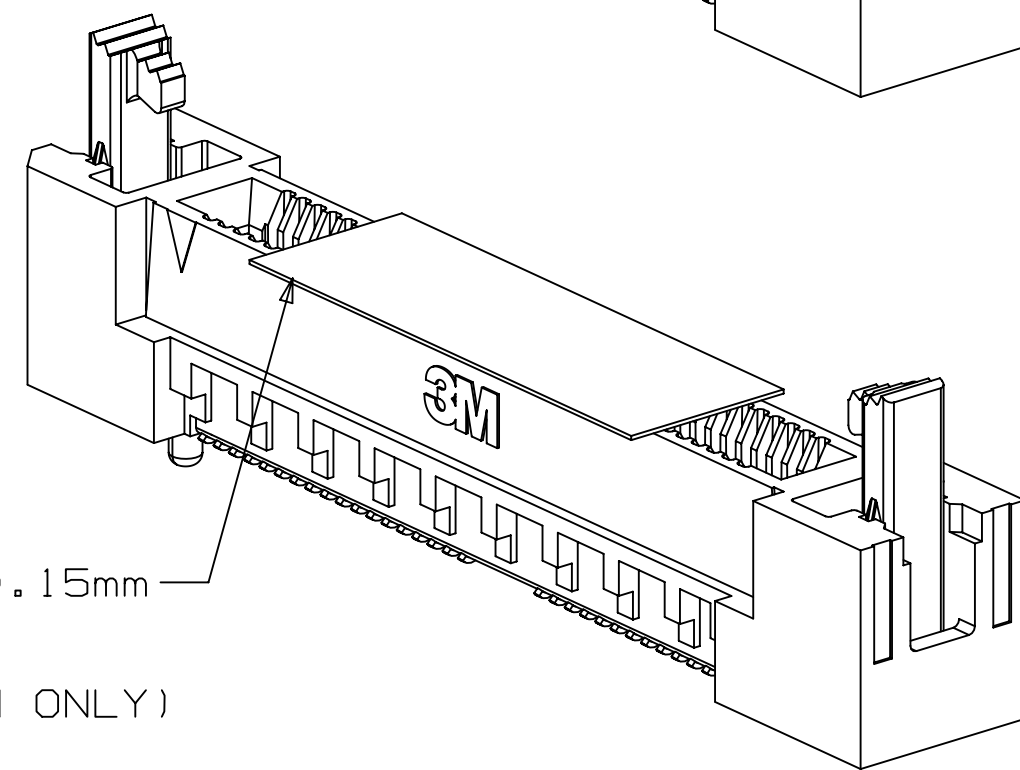
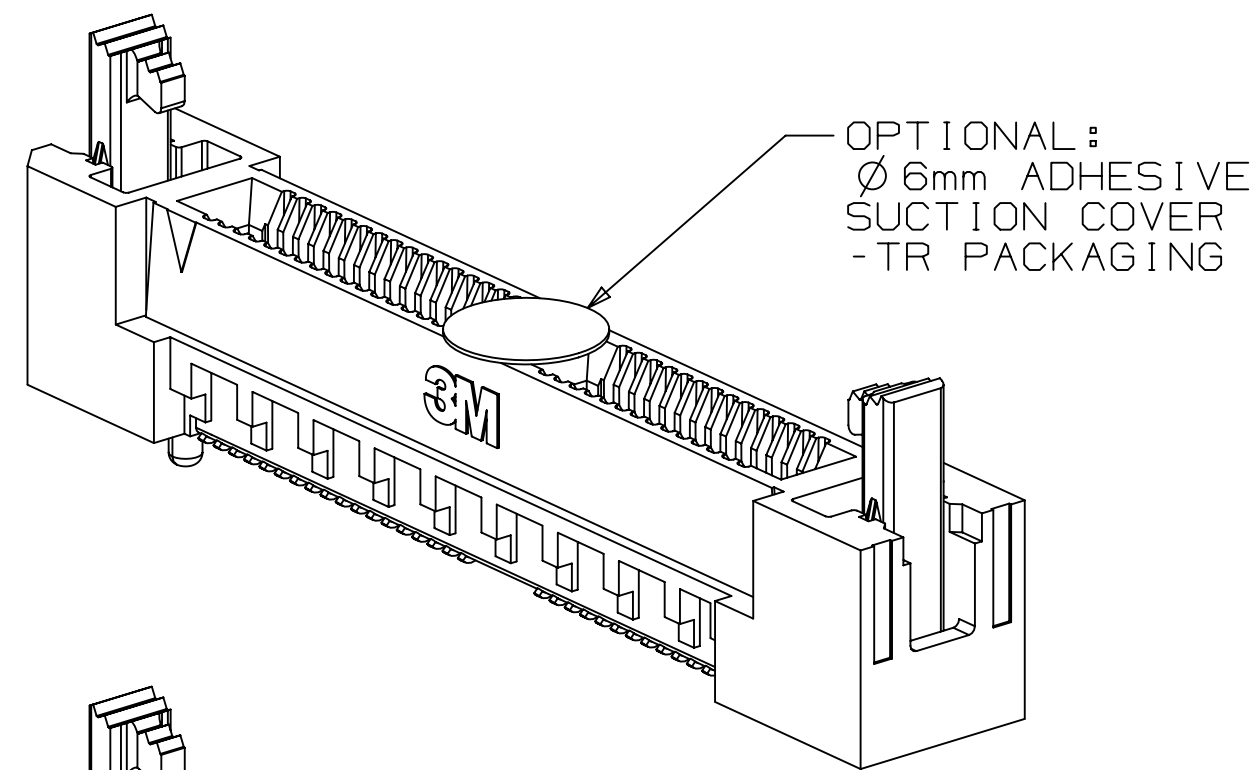
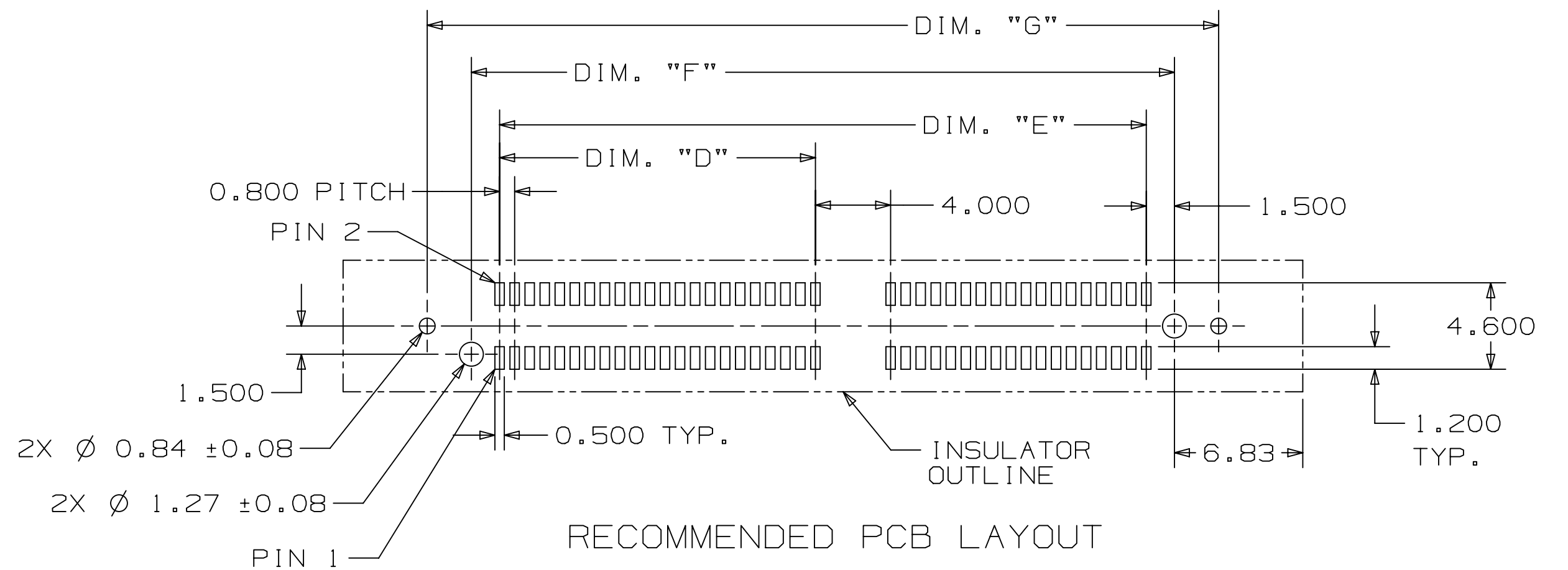
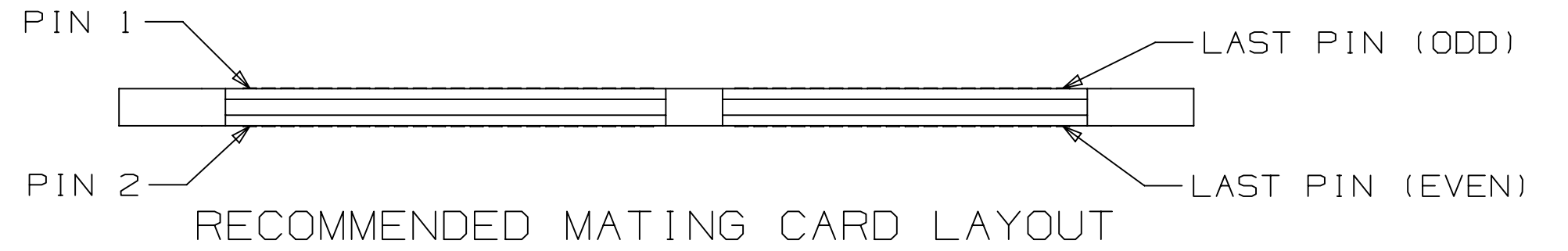
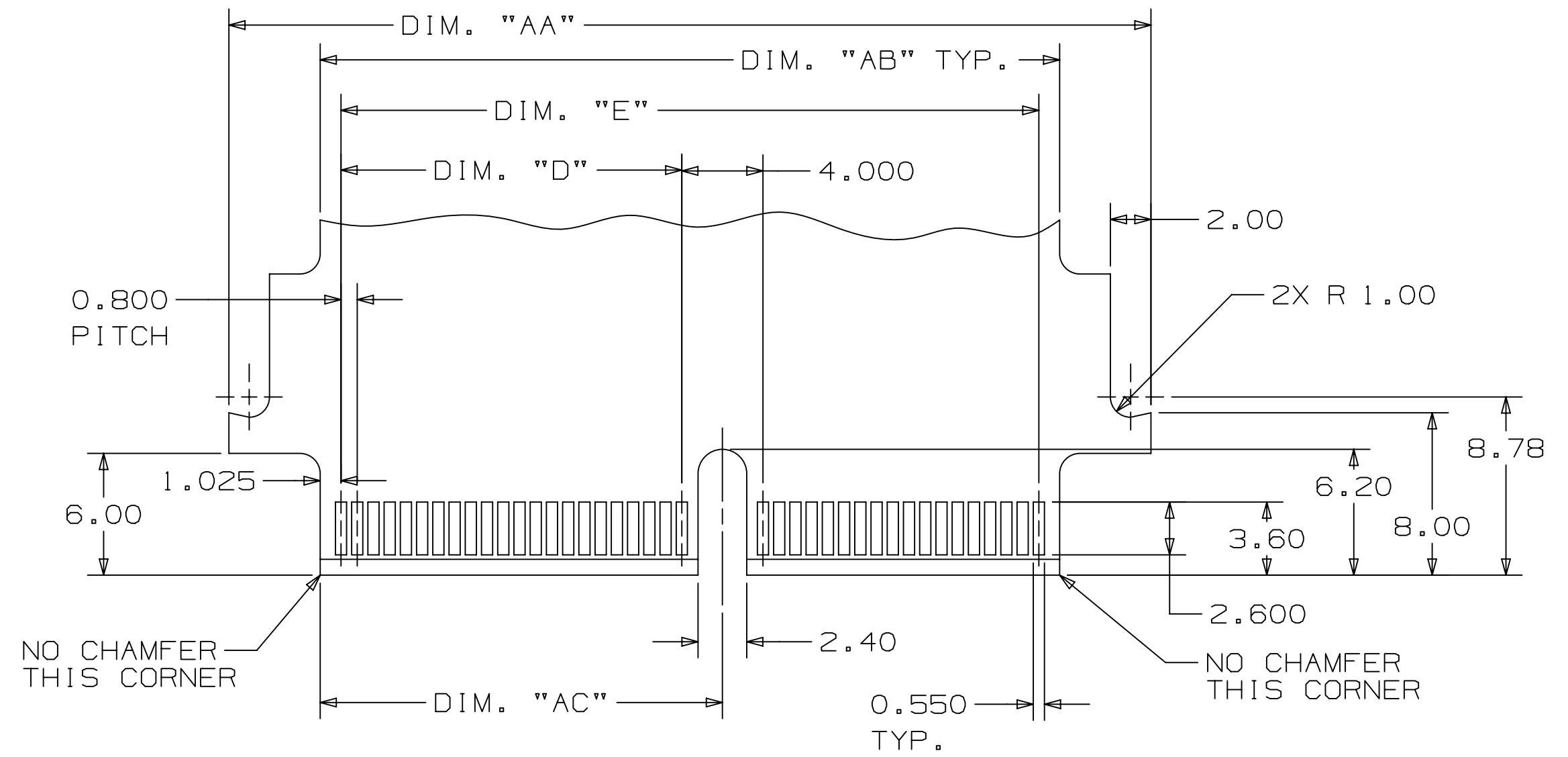
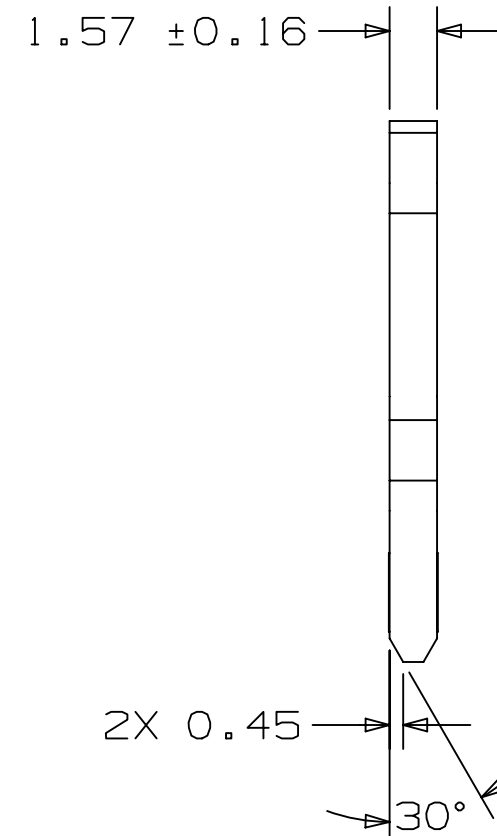
FIGURE 4

TABLE 4										
CONNECTORS WITH LATCH OPTION										
POSITION	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "AA"	DIM. "AB"	DIM. "AC"
050	39.05	24.60	7.10	4.000	22.400	25.40	30.10	33.45	24.45	7.025
080	51.05	36.60	19.90	16.800	34.400	37.40	42.10	45.45	36.45	19.825
100	59.05	44.60	23.90	20.800	42.400	45.40	50.10	53.45	44.45	23.825
120	67.05	52.60	27.90	24.800	50.400	53.40	58.10	61.45	52.45	27.825
140	75.05	60.60	27.90	24.800	58.400	61.40	66.10	69.45	60.45	27.825
160	83.05	68.60	27.90	24.800	66.400	69.40	74.10	77.45	68.45	27.825
180	91.05	76.60	27.90	24.800	74.400	77.40	82.10	85.45	76.45	27.825
200	99.05	84.60	27.90	24.800	82.400	85.40	90.10	93.45	84.45	27.825

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OPTIONAL 6.5mm X 20mm X 0.15mm
ADHESIVE SUCTION COVER
-TR PACKAGING
(FOR 180 LATCHED POSITION ONLY)



DESIGN REFERENCE		NEXT ASSEMBLY	
ADDRESS CODES			
DIVISION		DIVISION CODE	DEPP
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	
MAX. SURFACE ROUGHNESS		ANGLES	
ALL SURFACES MARKED ONLY			

C	1621	JUL 08,2026	JNC	FJR
B	48241	JUL 16,2013	KL1UKLIU	
A	37394	MAY 11,2011	KL1UKLIU	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CHKD	K., D. LIU	DATE MAY 11,2011	DATE	DATE
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HIGH SPEED CARD EDGE CONNECTOR, 0.8 MM PITCH, SMT, SPD08				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2420-7	C		
MODEL	SPD08	LISTS	YES	NO
SHT 5 OF 6				

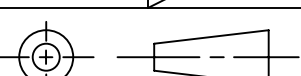
SURFACE MOUNT, WITH AND WITHOUT LATCH

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Transportation and Electronics Business Group (TEBG)
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C	1621	JUL 08,2016 REDRAW & REVISE MODELS		JNC	FJR
B	48241	JUL 16,2013 REVISED DRAWING		KLIU/KLIU	
A	37394	MAY 11,2011 PRODUCTION RELEASE		KLIU/KLIU	
REV		ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES		DRFT K D. LIU	DATE MAY 11,2011	MPG	DATE
		CHKD	DATE	APPRVL	DATE
DIVISION		DIVISION CODE DEPP			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		 © 3M COPYRIGHT 2026 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.	
 THIRD ANGLE PROJECTION		INCHES 0 ± .00 0.00 ± .0000		TITLE	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± 0.5 0.0 ± 0.20 0.00 ± 0.10 0.00 ± 0.05		HIGH SPEED CARD EDGE CONNECTOR, 0.8 MM PITCH, SMT, SPD08	
MAX. SURFACE ROUGHNESS ✓ ☐ ALL SURFACES ☐ MARKED ONLY		CAGE NUMBER D		SIZE DRAWING NO. 5100-2420-7	
		MODEL SPD08		REV. DET. LISTS ☐ YES ☒ NO SHT 6 OF 6	