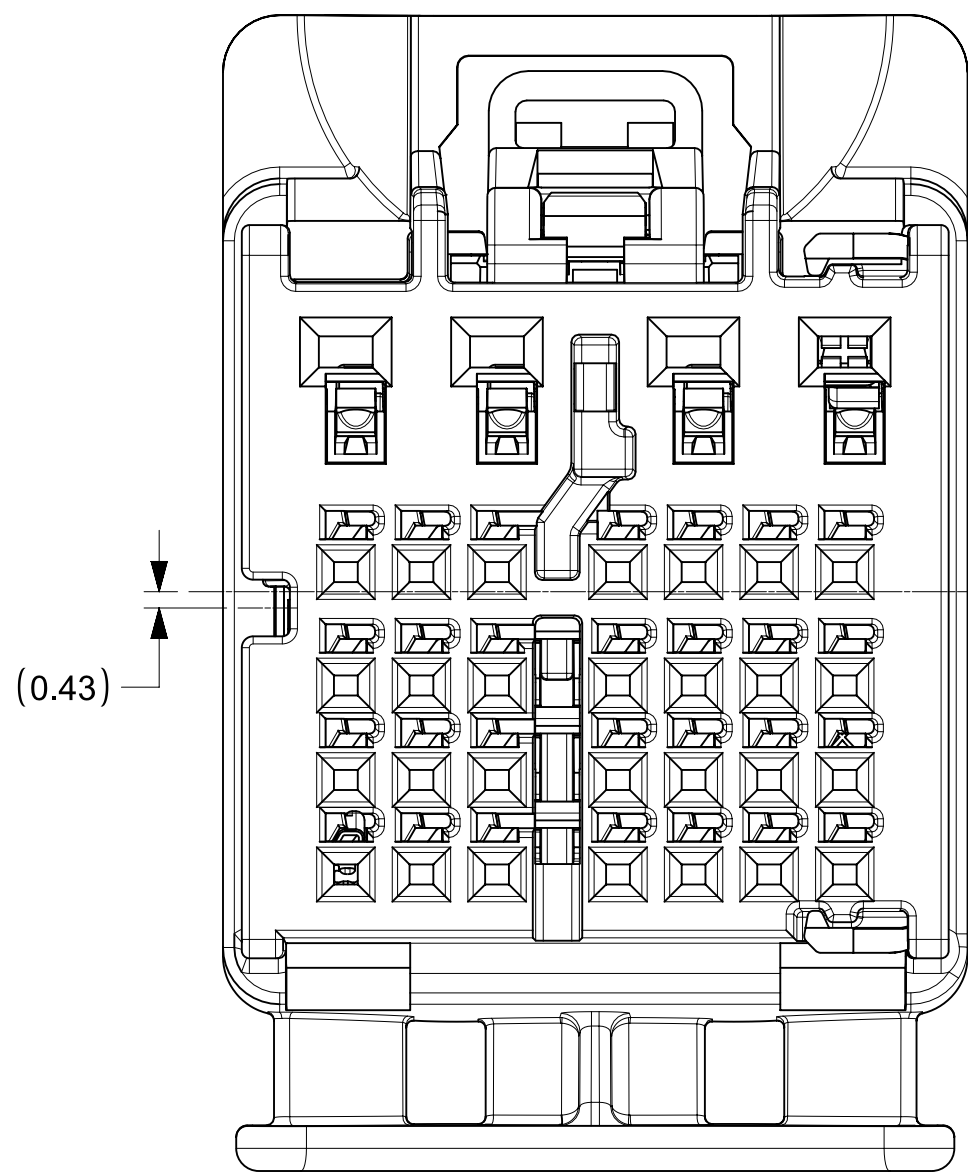
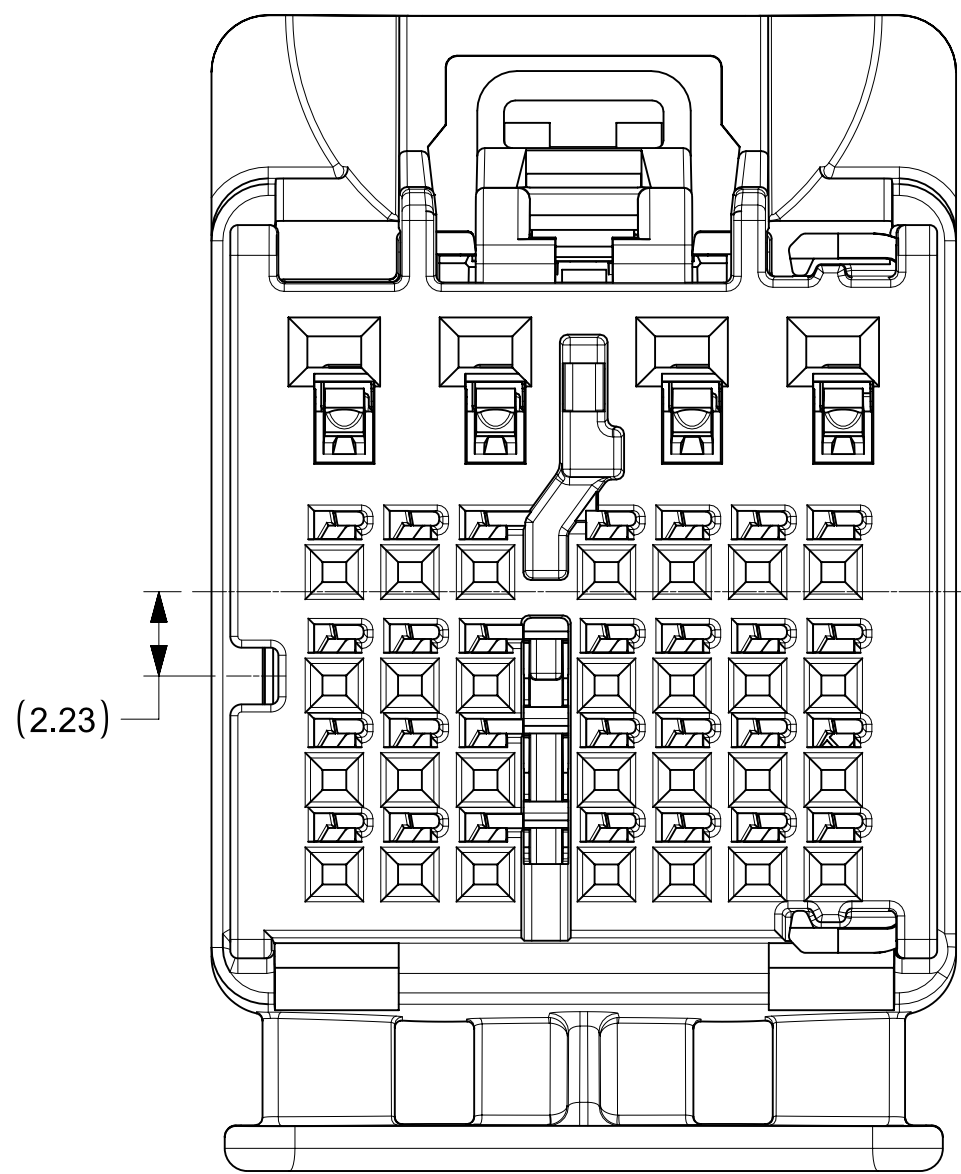
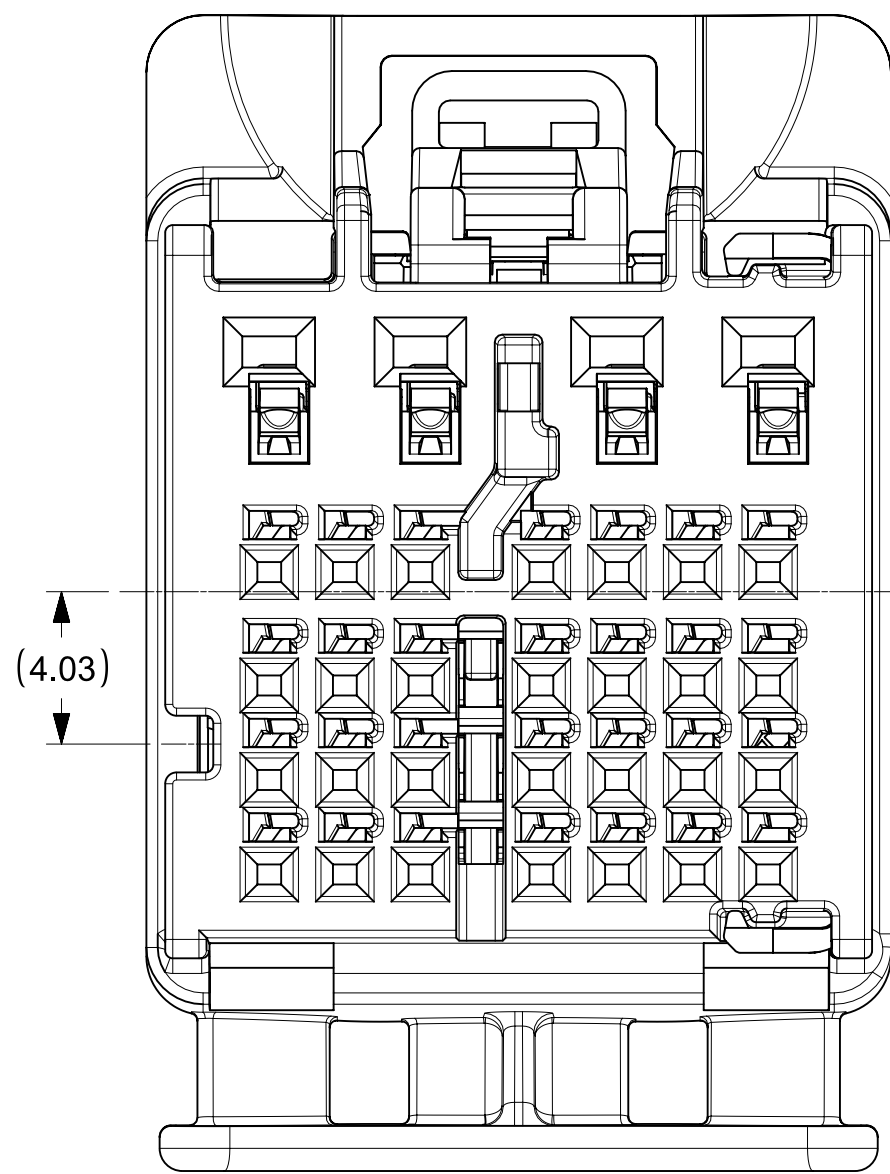




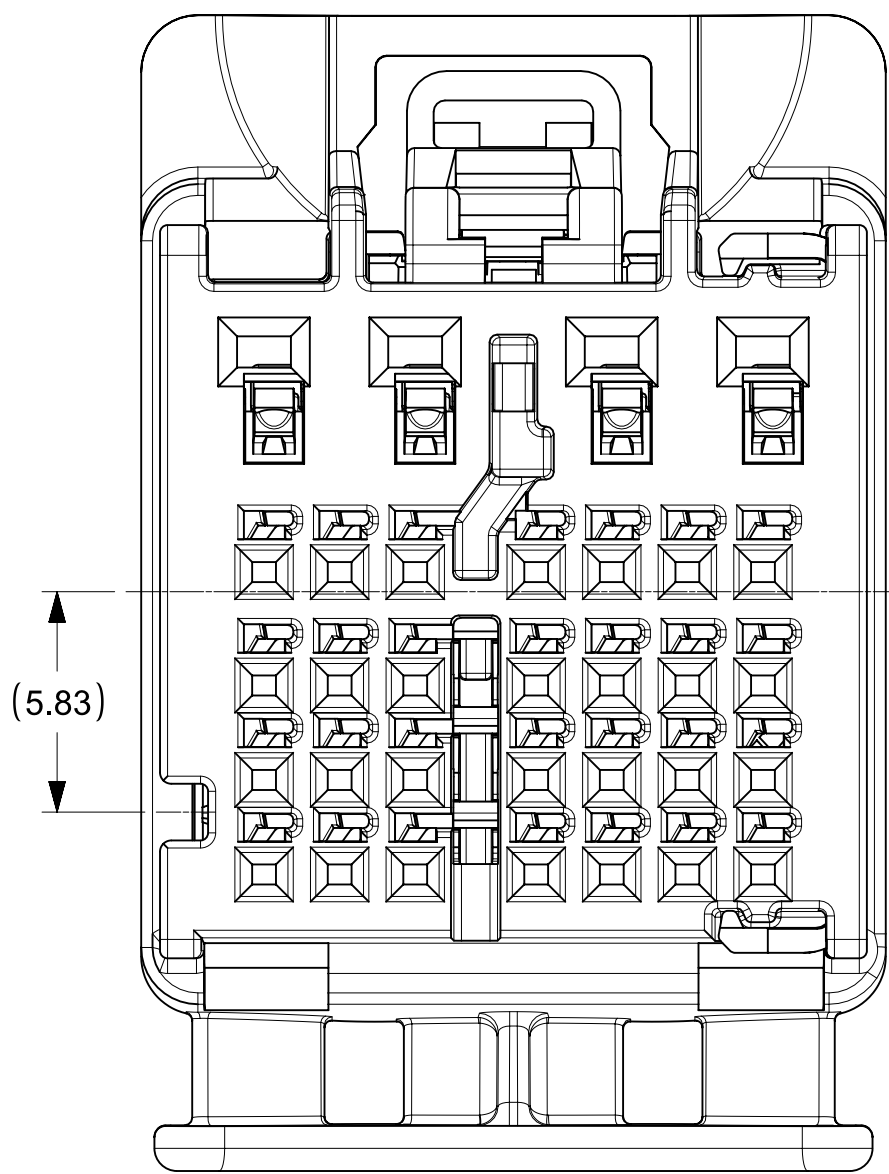
32 WAY CONNECTOR ASSEMBLY KEY 1 & KEY 5



32 WAY CONNECTOR ASSEMBLY KEY 2 & KEY 6



32 WAY CONNECTOR ASSEMBLY KEY 3 & KEY 7



32 WAY CONNECTOR ASSEMBLY KEY 4 & KEY 8

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL

- a. APPLICATION SPECIFICATION SEE: AS-160014-001
- b. PRODUCT SPECIFICATION SEE: PS-160014-001
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31302-266
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:

a. SEE BOM TABLE

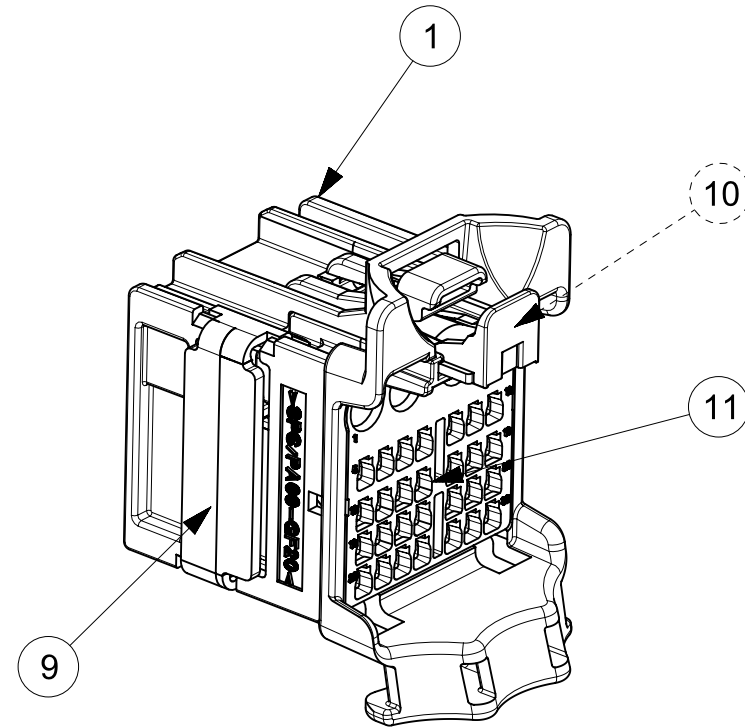
3. DESIGN - GEOMETRY:

- a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
 - b. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
 - c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
 - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - e. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
 - f. MARKED TEXT TO INCLUDE RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION AND CUSTOMER MATERIAL NUMBER.
- 1. LASER ETCHED DATE CODE
 - 1ST THROUGH 2ND DIGIT = CALENDAR YEAR
 - 3RD THROUGH 5TH DIGIT = "DAY" # OF YEAR
 - 6TH THROUGH 7TH DIGIT = HOUR OF DAY
 - 8TH THROUGH 9TH DIGIT = MINUTE OF HOUR
 - 10TH THROUGH 11TH DIGIT = SECOND OF MINUTE
 - 2. LASER ETCHED ASSEMBLY LINE
 - " X" DENOTES CAPACITY ASSEMBLY LINE SUCH AS" _2" OR MORE IN FUTURE
- 4. DESIGN - MANUFACTURING:
 - a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

PART NUMBER	STATUS	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION	
200096-3101	ACTIVE	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)	
200096-3201	ACTIVE	TIN PLATING	MOLEX	0.13	TAK FAMILY (0.5 mm)		
2272196-2	ACTIVE	TIN PLATING	TE	0.35	Generation 50 Locking Lance (0.5mm)	SAE/ J1128 THIN WALL INSULATION	
2272196-1	ACTIVE	TIN PLATING	TE	0.13	Generation 50 Locking Lance (0.5mm)		
35072403	ACTIVE	TIN PLATING	DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2		GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL)
35072404	ACTIVE	TIN PLATING	DELPHI	0.75 - 0.8			
35072405	ACTIVE	TIN PLATING	DELPHI	0.8 - 1.0			
Ⓟ 35072406	OBSOLETE	TIN PLATING	DELPHI	1.25 - 1.5			
Ⓟ 35457252	ACTIVE	TIN PLATING	DELPHI	1.25 - 1.5			
SMSA-A031T-M1.2	SALEABLE	TIN PLATING	JST	0.5 - 0.75	MSA 1.2mm TERMINAL		
SMSA-A041T-M1.2	SALEABLE	TIN PLATING	JST	1.0 - 1.5	MSA 1.2mm TERMINAL		

ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	RIB OPTION	NO OF ITEMS REQUIRED							
1	OUTER SHROUD - KEY 1	BLACK	SPS/PA66-GF20	3.2	A	1							
2	OUTER SHROUD - KEY 2	BLUE	SPS/PA66-GF20	3.2	A		1						
3	OUTER SHROUD - KEY 3	DARK GRAY	SPS/PA66-GF20	3.2	A			1					
4	OUTER SHROUD - KEY 4	PURPLE C	SPS/PA66-GF20	3.2	A				1				
5	OUTER SHROUD - KEY 5	PINK B	SPS/PA66-GF20	3.2	B					1			
6	OUTER SHROUD - KEY 6	TBD	SPS/PA66-GF20	3.2	B						1		
7	OUTER SHROUD - KEY 7	LIGHT BROWN	SPS/PA66-GF20	3.2	B							1	
8	OUTER SHROUD - KEY 8	TBD	SPS/PA66-GF20	3.2	B								1
9	ISL	NATURAL	SPS-GF30	0.37	N/A	1	1	1	1	1	1	1	1
10	CPA	NATURAL	PA66-GF50	0.08	N/A	1	1	1	1	1	1	1	1
11	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.75	N/A	1	1	1	1				
12	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.75	N/A						1	1	1

MOLEX ASSEMBLY PART NO.'S	
1600280011	KEY 1
1600280012	KEY 2
1600280013	KEY 3
1600280014	KEY 4
1600280015	KEY 5
1600280016	KEY 6
1600280017	KEY 7
1600280018	KEY 8



SCALE 2:1

RIB OPTION A

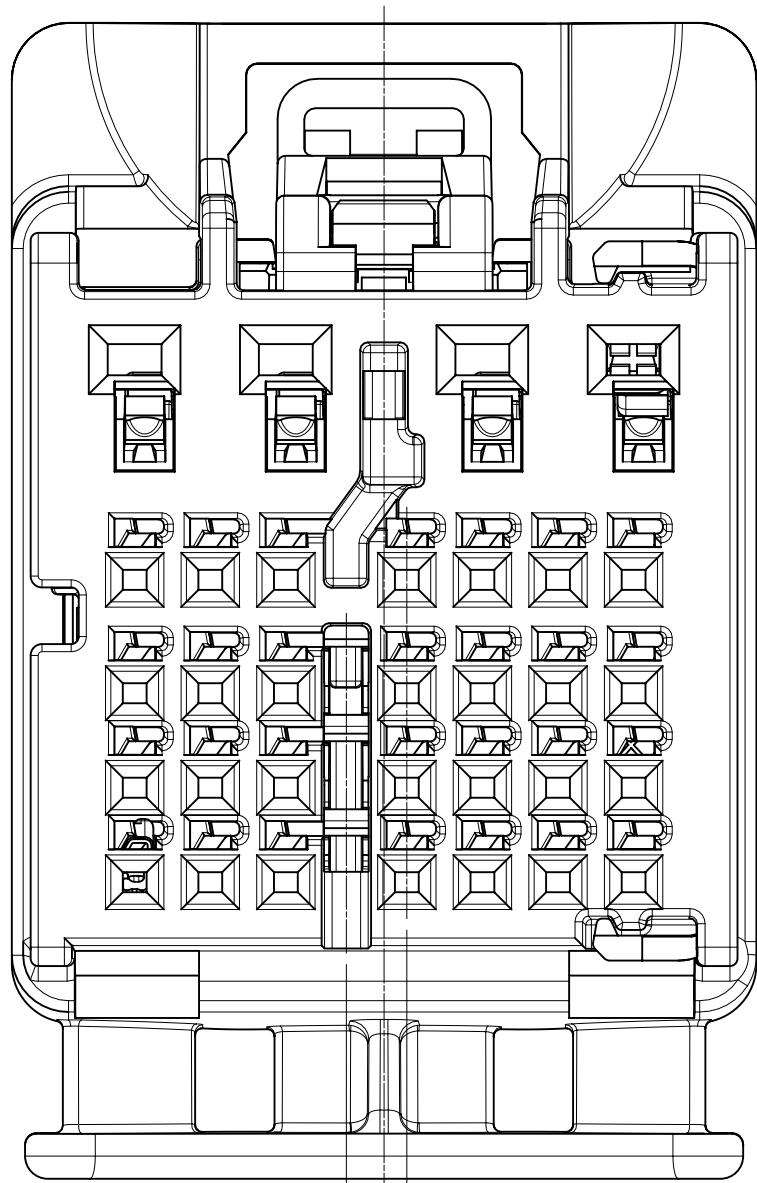
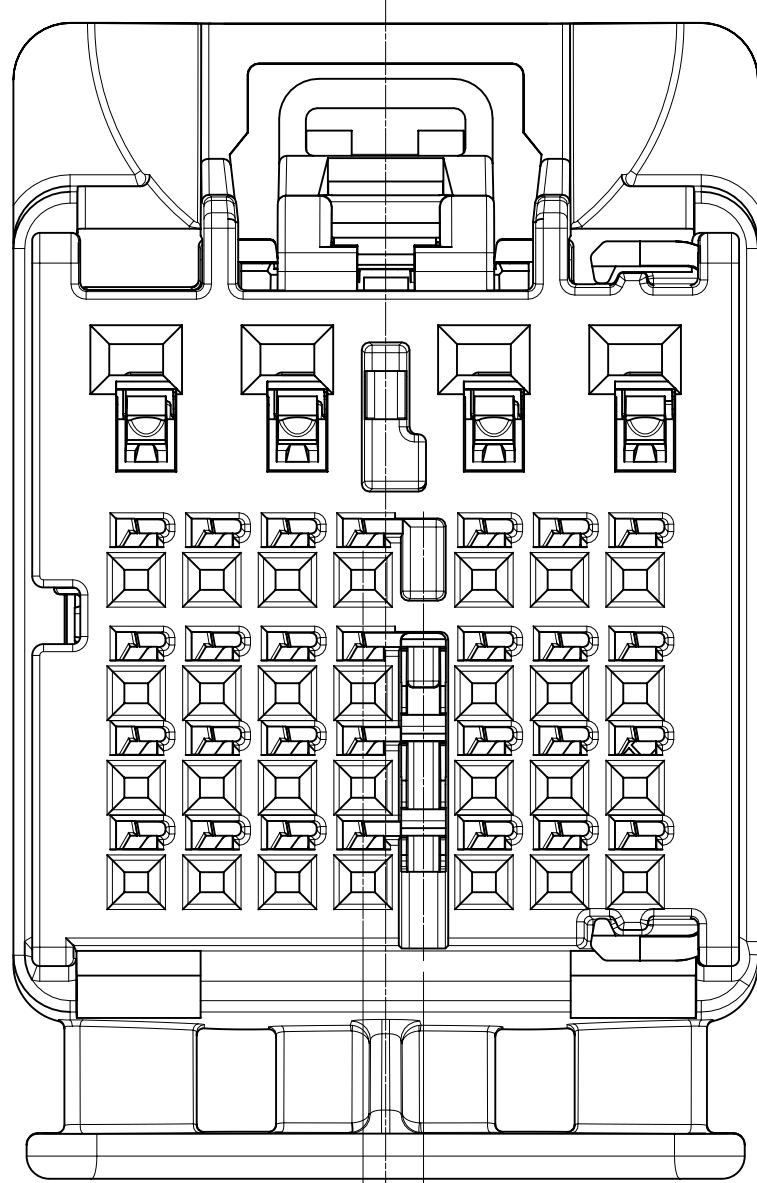


Diagram illustrating a two-stage flow process:

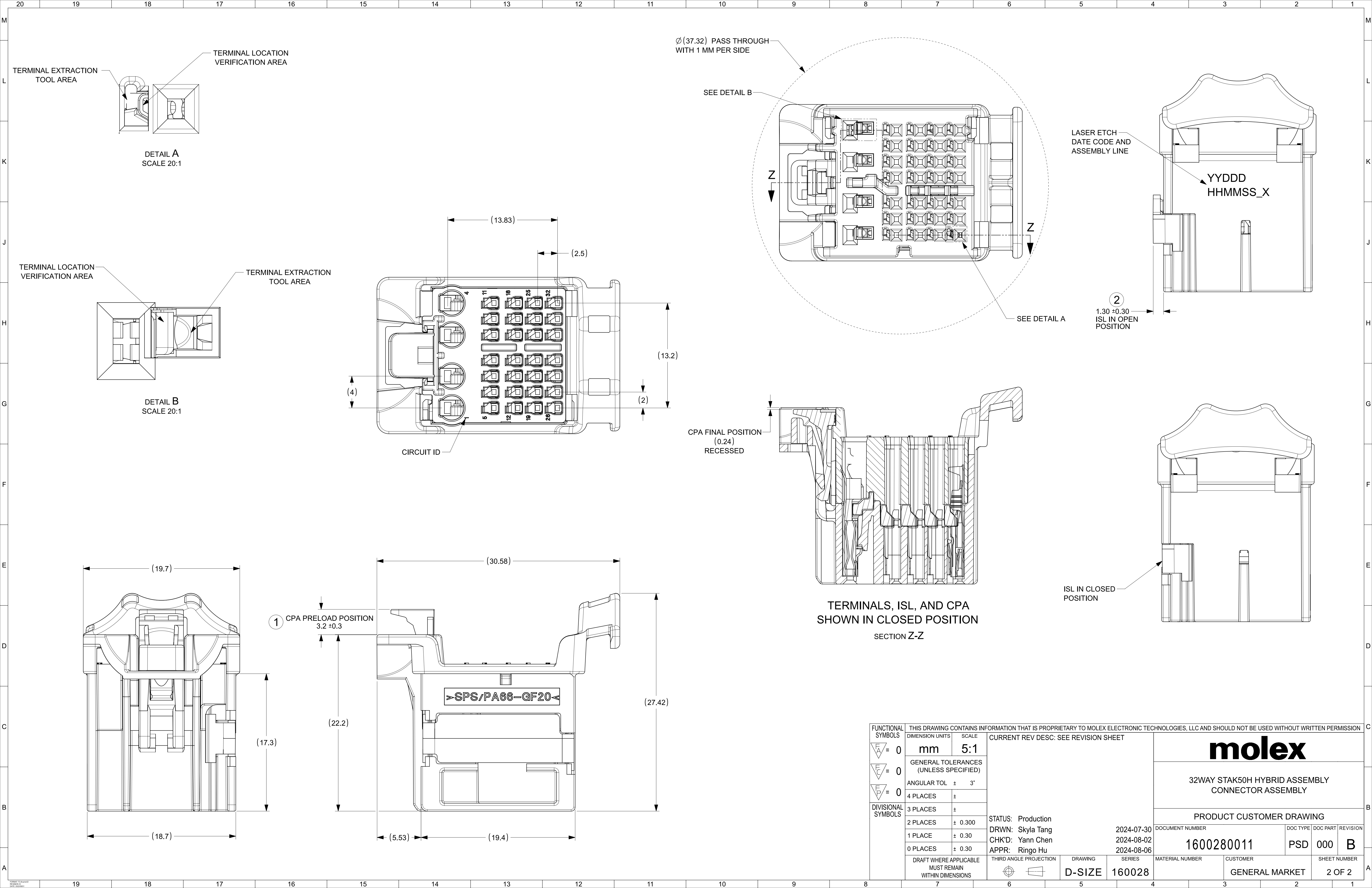
- Stage 1: Input of 1.00, Output of 0.60.
- Stage 2: Input of 0.60, Output of 0.40.

RIB OPTION B



INSPECTION BALLOON NUMBER LOG
PER DRAWING REVISION: A6
LAST BALLOON NUMBER: 2
ADDED BALLOON NUMBER: NONE
DELETED BALLOON NUMBER: NONE

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						
F_A = 0 F_E = 0 F_F = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION SHEET					molex 32WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY PRODUCT CUSTOMER DRAWING <table><tr><td colspan="2">DOCUMENT NUMBER</td><td>DOC TYPE</td><td>DOC PART</td><td>REVISION</td></tr><tr><td colspan="2">1600280011</td><td>PSD</td><td>000</td><td>B</td></tr></table>				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	1600280011		PSD	000	B
	DOCUMENT NUMBER		DOC TYPE	DOC PART										REVISION									
	1600280011		PSD	000										B									
	mm		5:1																				
	GENERAL TOLERANCES (UNLESS SPECIFIED)																						
ANGULAR TOL ± 3°																							
4 PLACES ±																							
DIVISIONAL SYMBOLS	3 PLACES ±		STATUS: Production DRWN: Skyla Tang 2024-07-30 CHK'D: Yann Chen 2024-08-02 APPR: Ringo Hu 2024-08-06		PRODUCT CUSTOMER DRAWING																		
	2 PLACES ± 0.300																						
	1 PLACE ± 0.30																						
	0 PLACES ± 0.30																						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																						
THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER													
		D-SIZE		160028				GENERAL MARKET		1 OF 2													



TERMINAL EXTRACTION
TOOL AREA

TERMINAL LOCATION
VERIFICATION AREA

DETAIL A
SCALE 20:1

TERMINAL LOCATION
VERIFICATION AREA

TERMINAL EXTRACTION
TOOL AREA

DETAIL B
SCALE 20:1

Ø (37.32) PASS THROUGH
WITH 1 MM PER SIDE

SEE DETAIL B

LASER ETCH
DATE CODE AND
ASSEMBLY LINE

YYDDD
HHMMSS_X

②
1.30 ± 0.30
ISL IN OPEN
POSITION

ISL IN CLOSED
POSITION

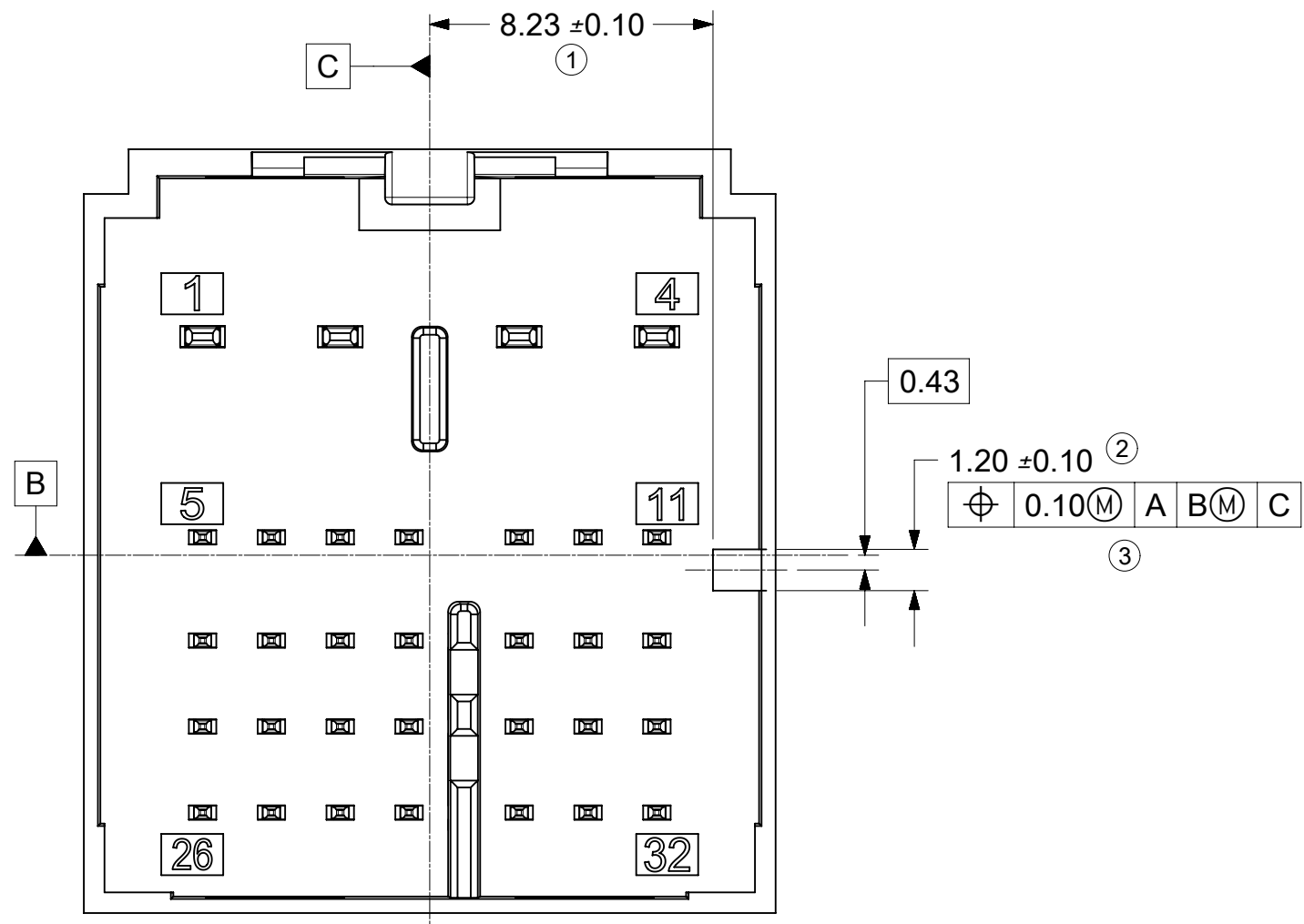
CPA FINAL POSITION
(0.24)
RECESSED

TERMINALS, ISL, AND CPA
SHOWN IN CLOSED POSITION
SECTION Z-Z

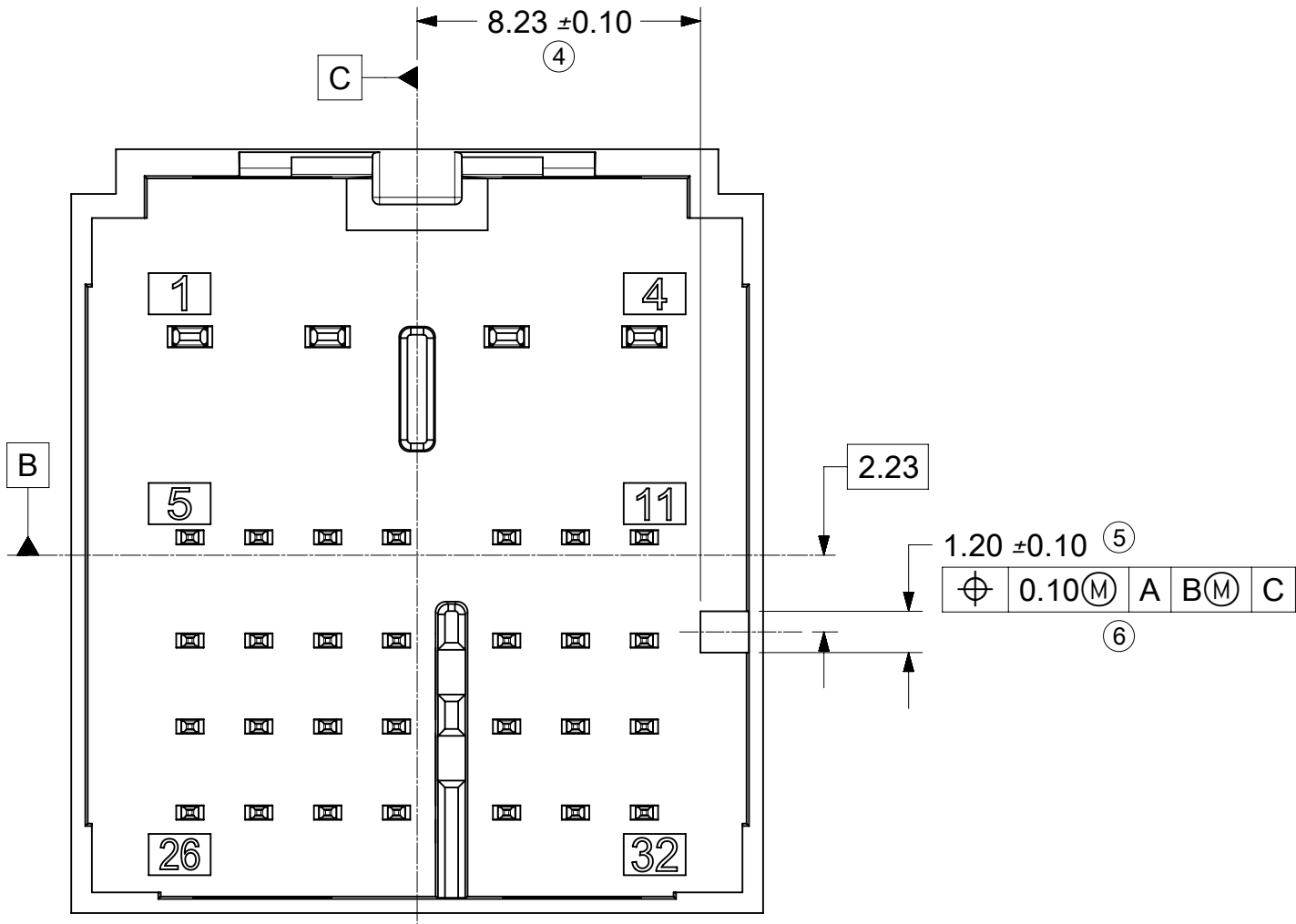
① CPA PRELOAD POSITION
3.2 ± 0.3

>SPS/PA66-GF20<

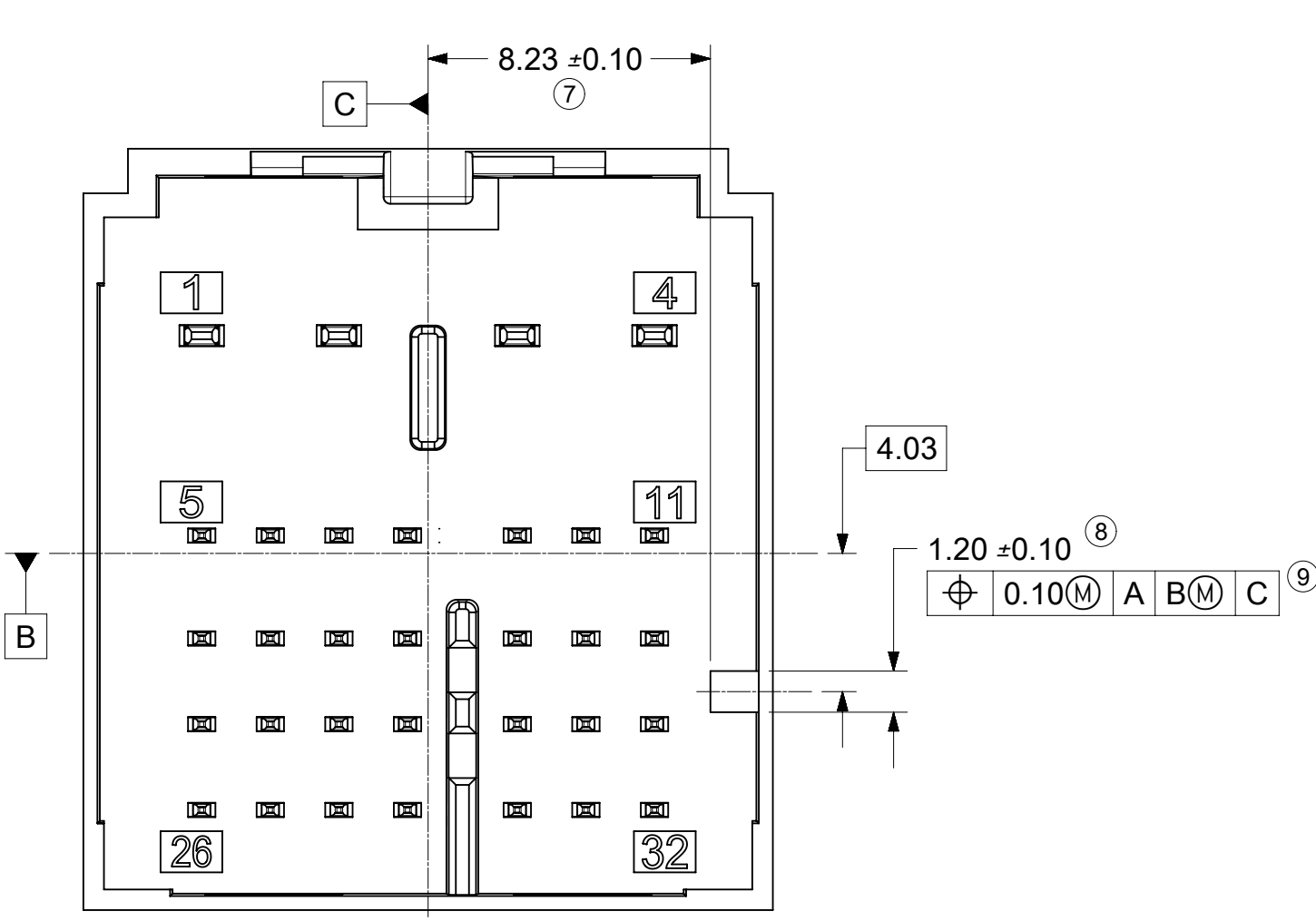
FUNCTIONAL SYMBOLS $\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$ DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION SHEET			
	DIMENSION UNITS	SCALE				
	mm	5:1				
	GENERAL TOLERANCES (UNLESS SPECIFIED)					
	ANGULAR TOL	± 3°				
	4 PLACES	±				
	3 PLACES	±				
	2 PLACES	± 0.300				
	1 PLACE	± 0.30				
	0 PLACES	± 0.30				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	
				D-SIZE	160028	
			STATUS: Production		2024-07-30	
			DRWN: Skylar Tang		2024-08-02	
			CHK'D: Yann Chen		2024-08-06	
			APPR: Ringo Hu			
					DOCUMENT NUMBER	DOC TYPE
					1600280011	PSD
					000	REVISION
					B	
					MATERIAL NUMBER	CUSTOMER
					GENERAL MARKET	SHEET NUMBER
						2 OF 2



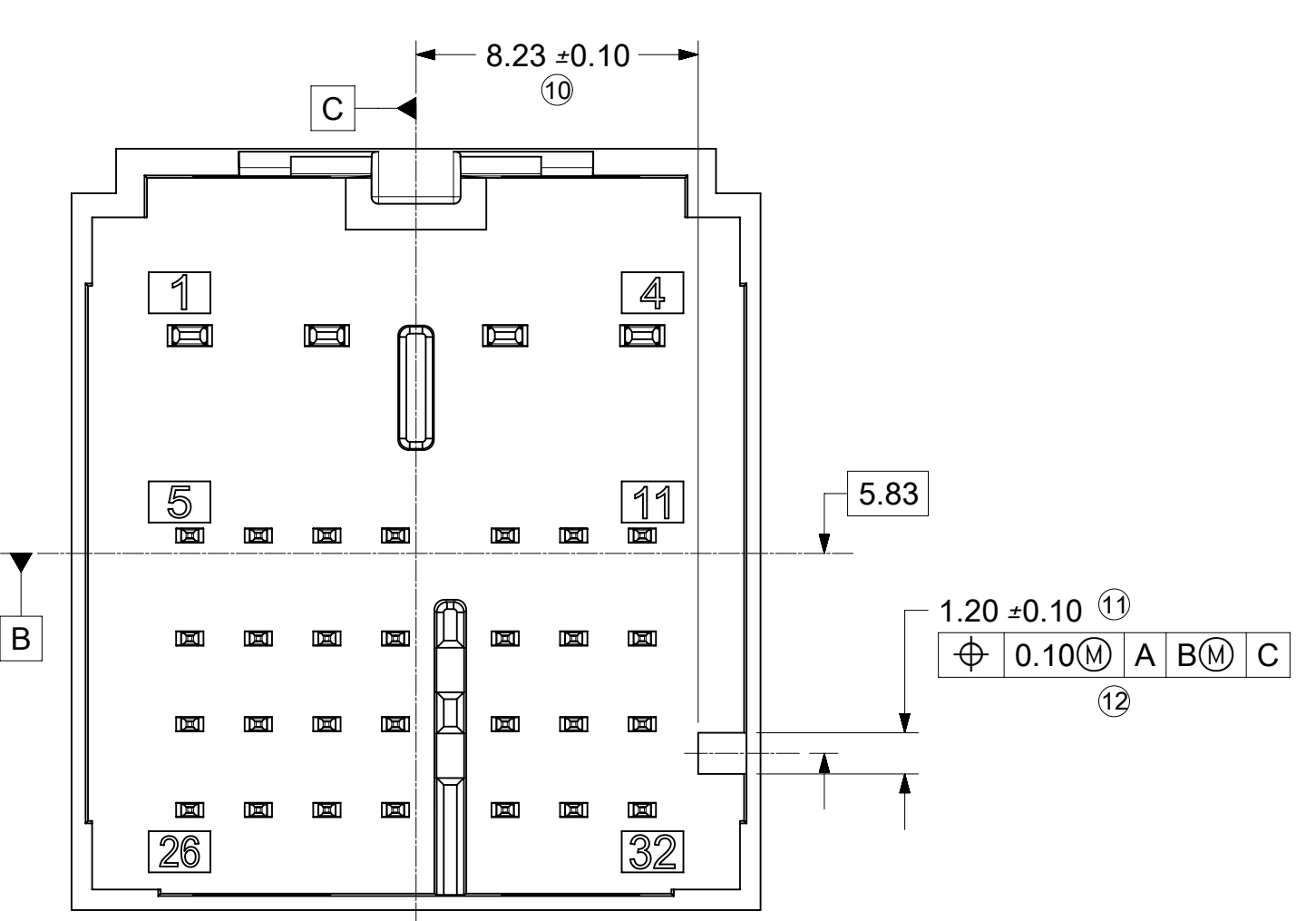
INTERFACE KEY 1 & KEY 5



INTERFACE KEY 2 & KEY 6



INTERFACE KEY 3 & KEY 7

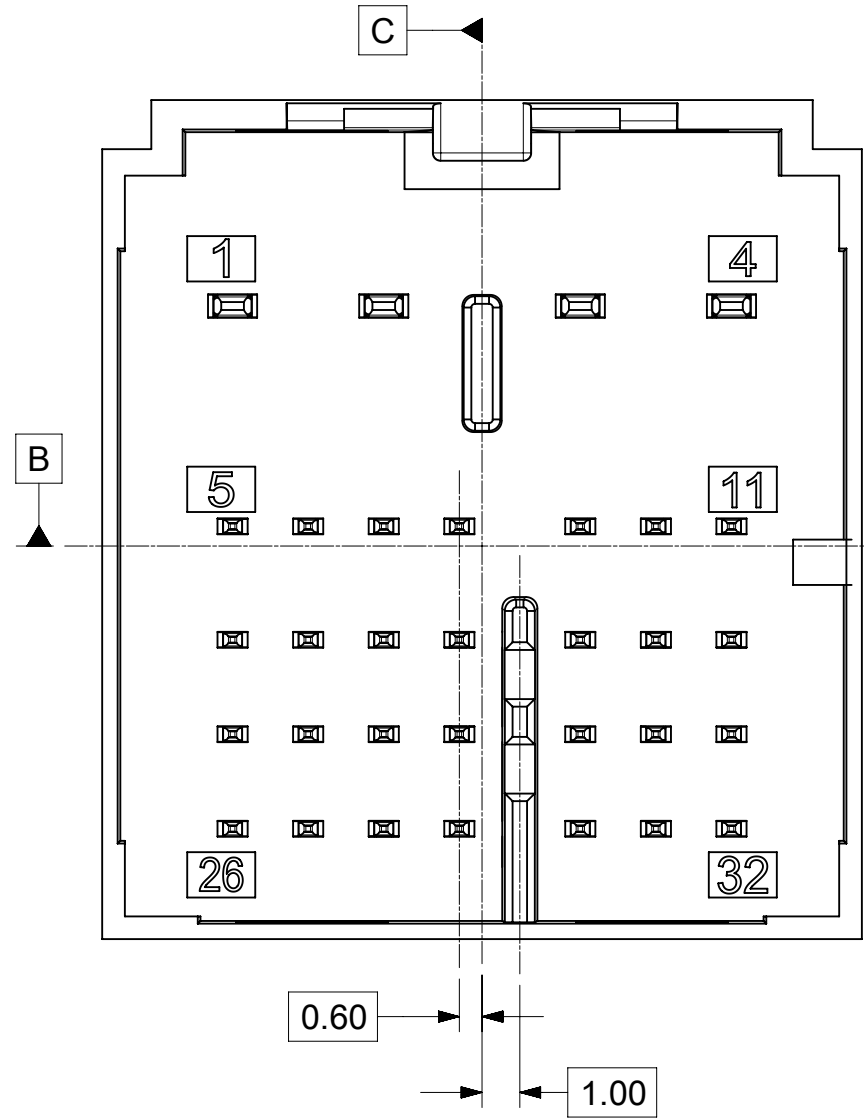


INTERFACE KEY 4 & KEY 8

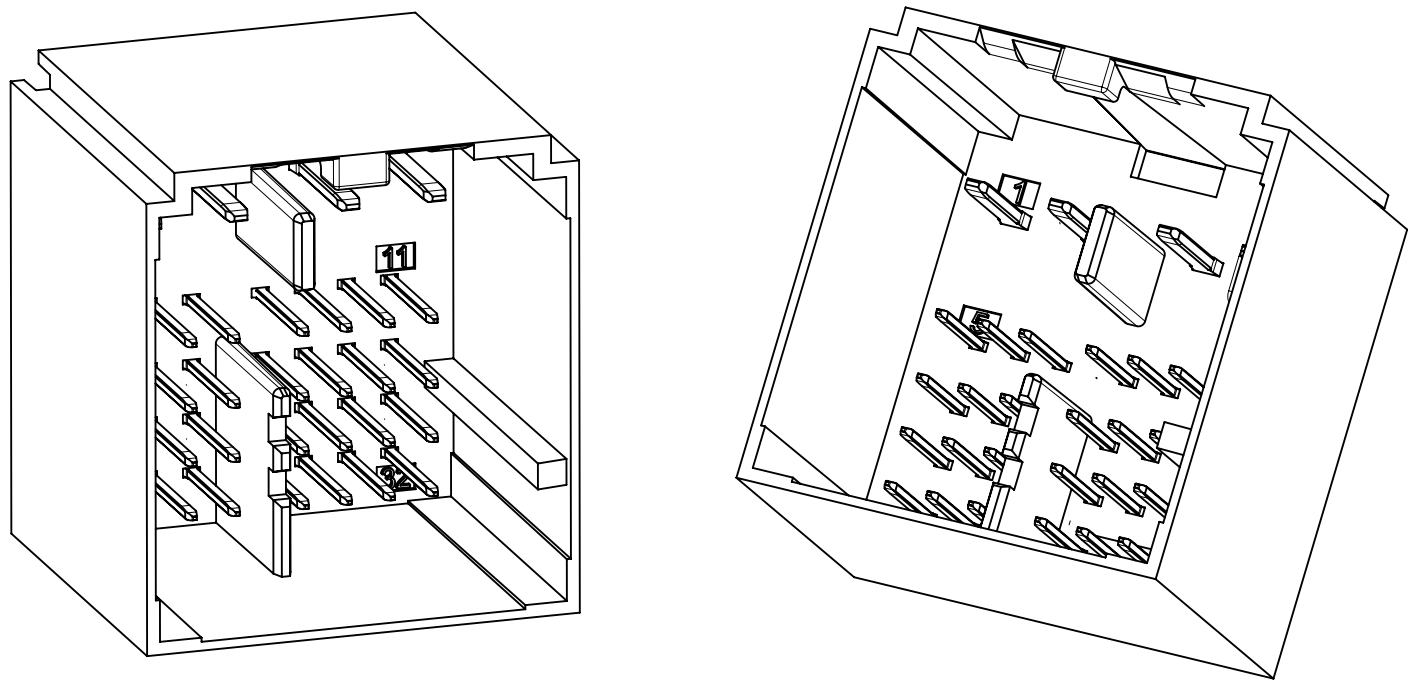
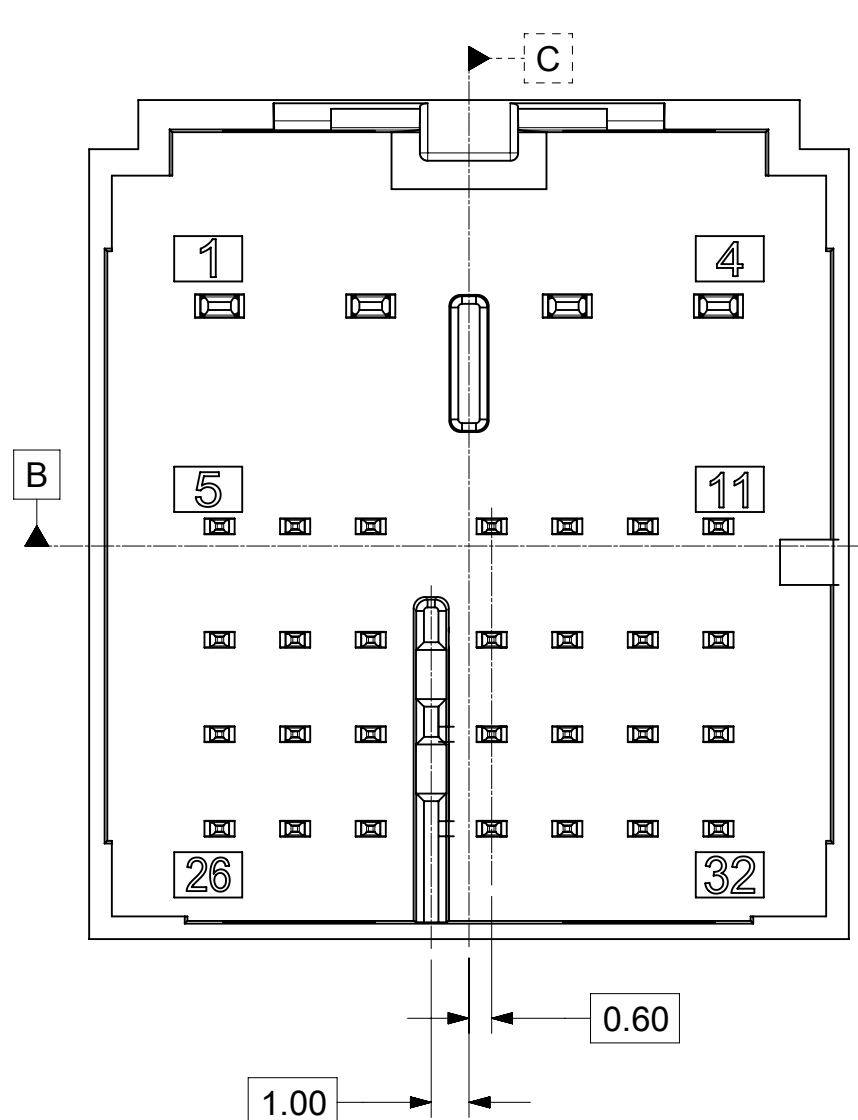
INTERFACE OPTIONS		
KEY	RIB OPTION	MATING CONNECTOR COLOR
1	OPTION A	BLACK
2	OPTION A	BLUE
3	OPTION A	DARK GRAY
4	OPTION A	PURPLE C
5	OPTION B	PINK B
6	OPTION B	TBD
7	OPTION B	LIGHT BROWN
8	OPTION B	TBD

- NOTES: VALID UNLESS OTHERWISE SPECIFIED
- DESIGN - MATERIALS:
 - RESIN MATERIAL: PBT+GF30 OR SPS+GF30 OR EQUIVALENT
 - PIN/BLADE MATERIAL: ACCORDING TO USCAR DRAWING EWCAP-001 NOTE B2.
 - PLATING: ACCORDING TO USCAR DRAWING EWCAP-001 TIN REFLOW WITH UNDERPLATE.
 - PIN TIPS ACCORDING TO USCAR DRAWING EWCAP-001 (120-T002 & 050-T001)
 - DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE (ELECTRICAL/MECHANICAL) IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.
 - DESIGN - GEOMETRY:
 - ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
 - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
 - GENERAL TOLERANCES:
 - LINEAR: PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING
 - ANGULAR: ±3°
 - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
 - LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
(for small parts: LETTERING SHALL BE 0.10 MAX RAISED IN 0.15 MAX RECESS PAD)
 - DESIGN - MANUFACTURING:
 - DRAFT TO BE WITHIN TOLERANCE.

RIB OPTION A

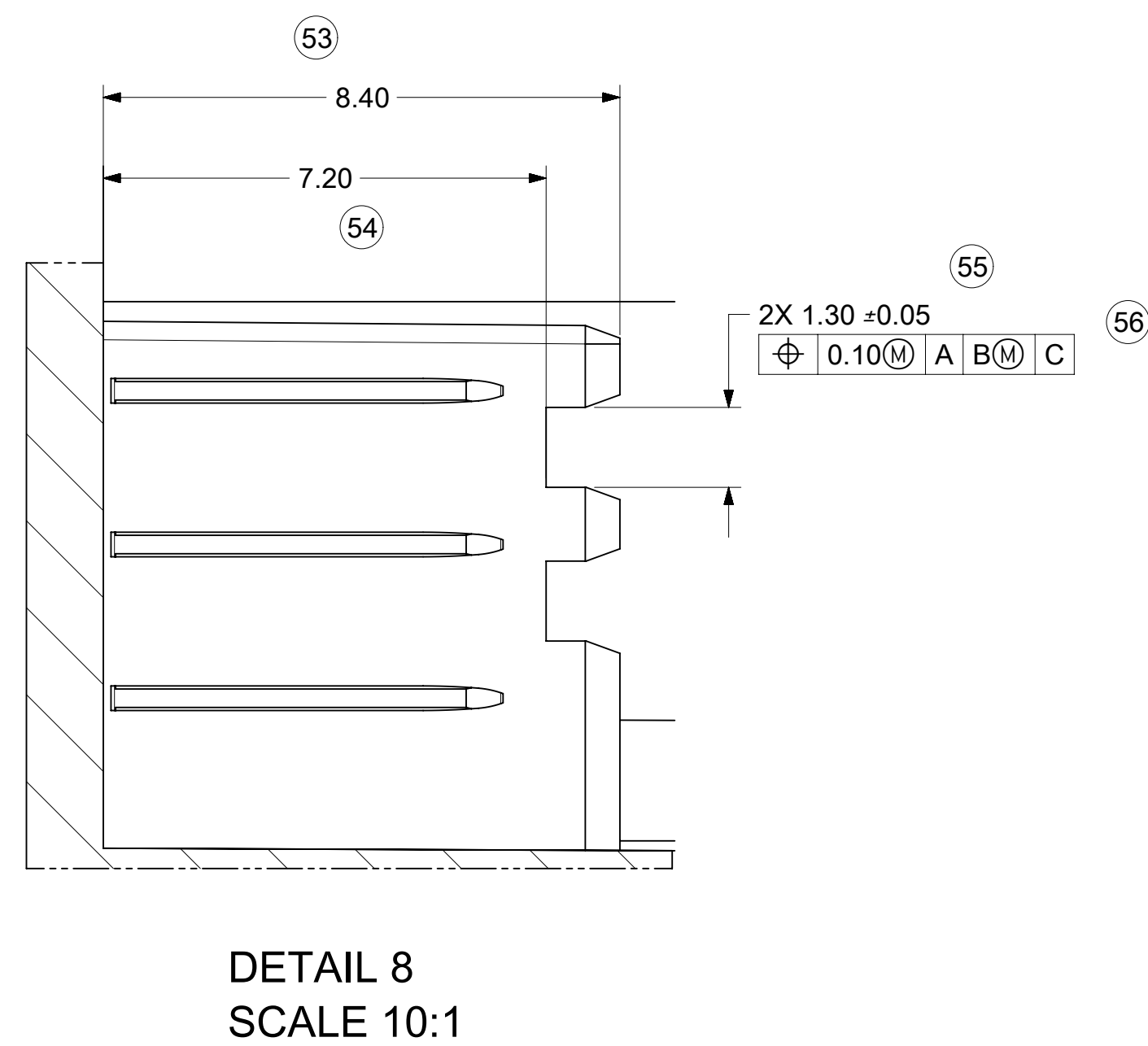
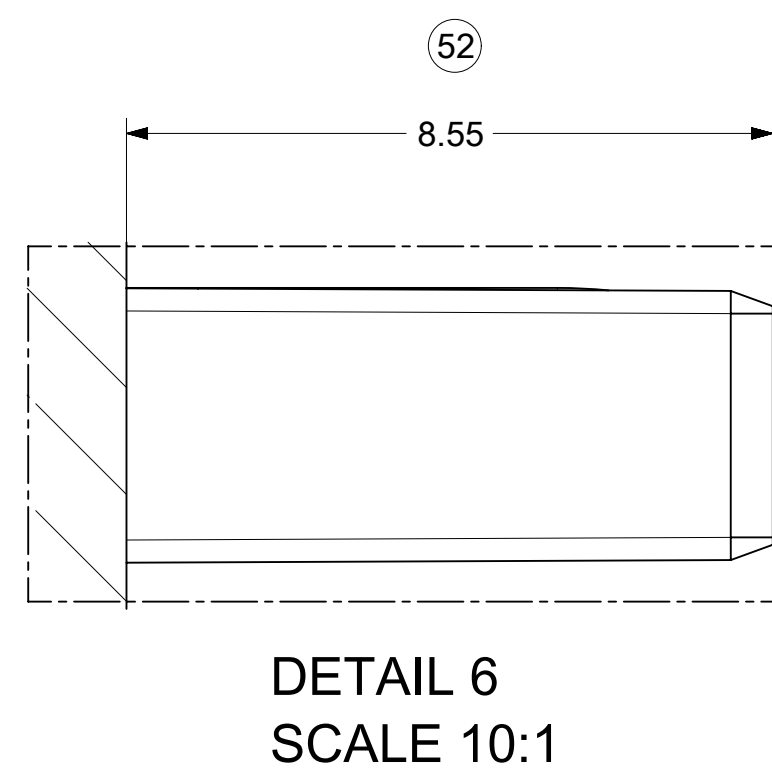
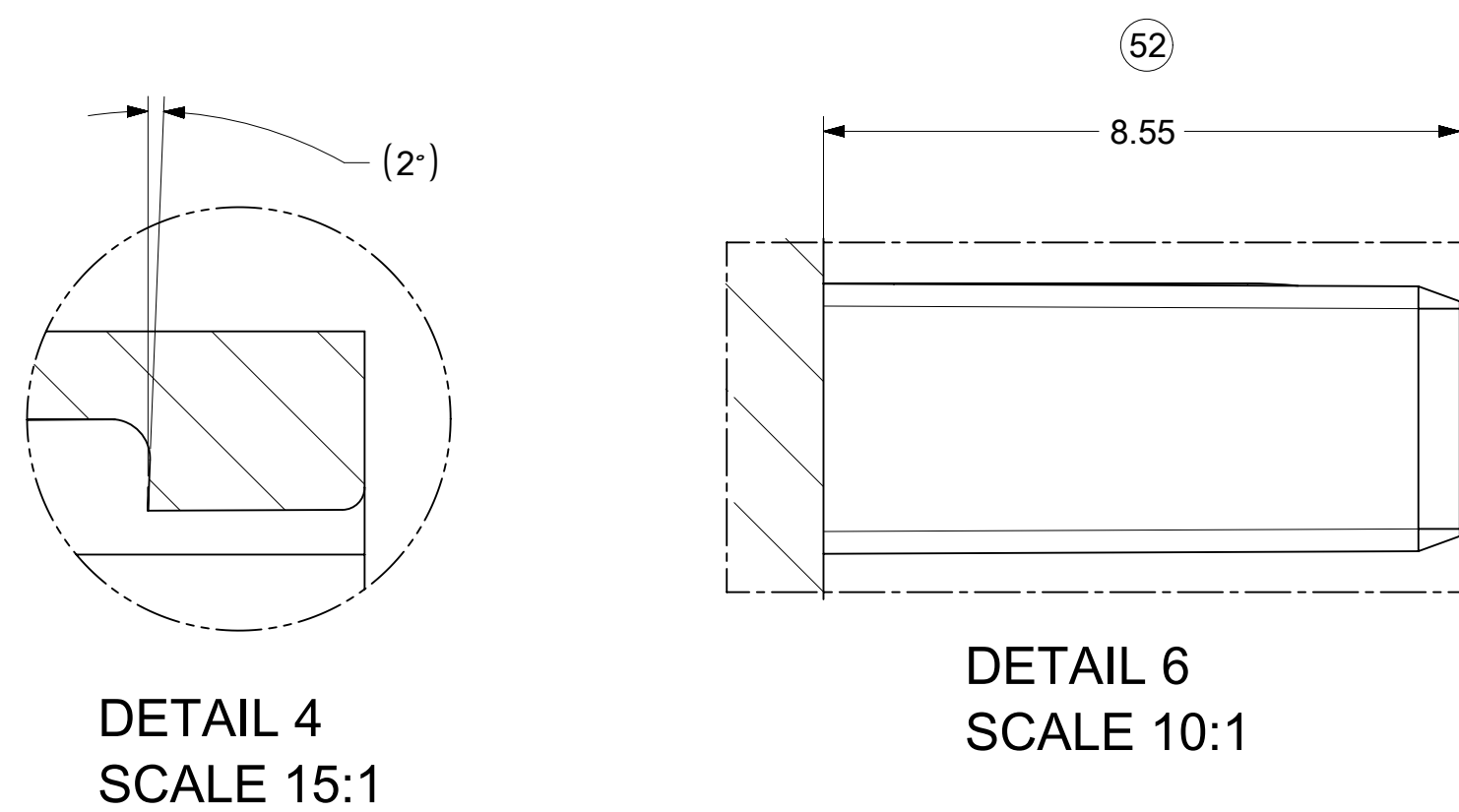
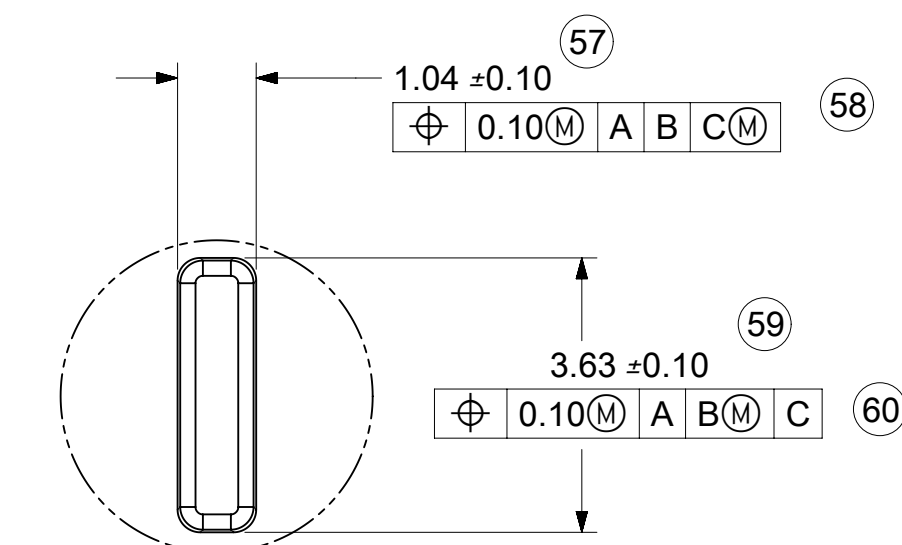
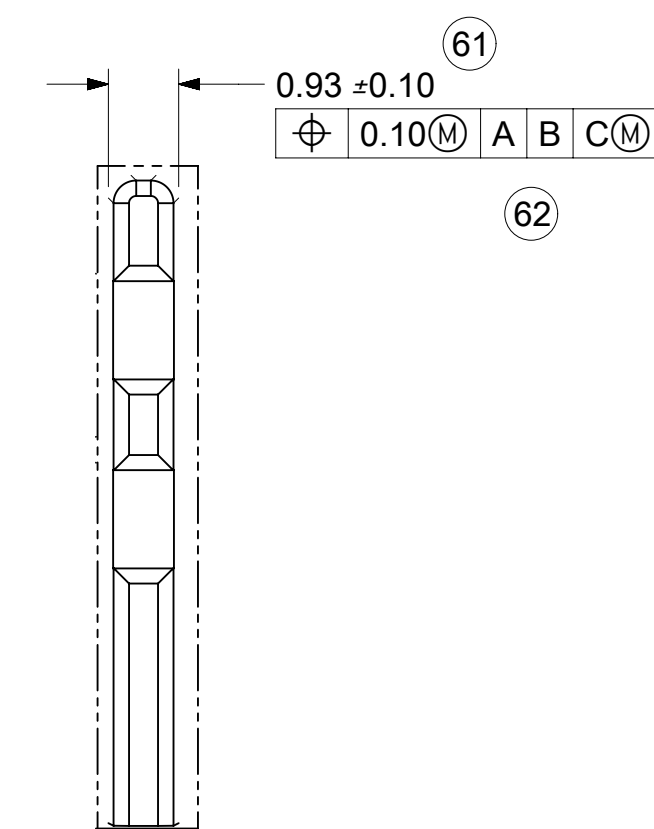
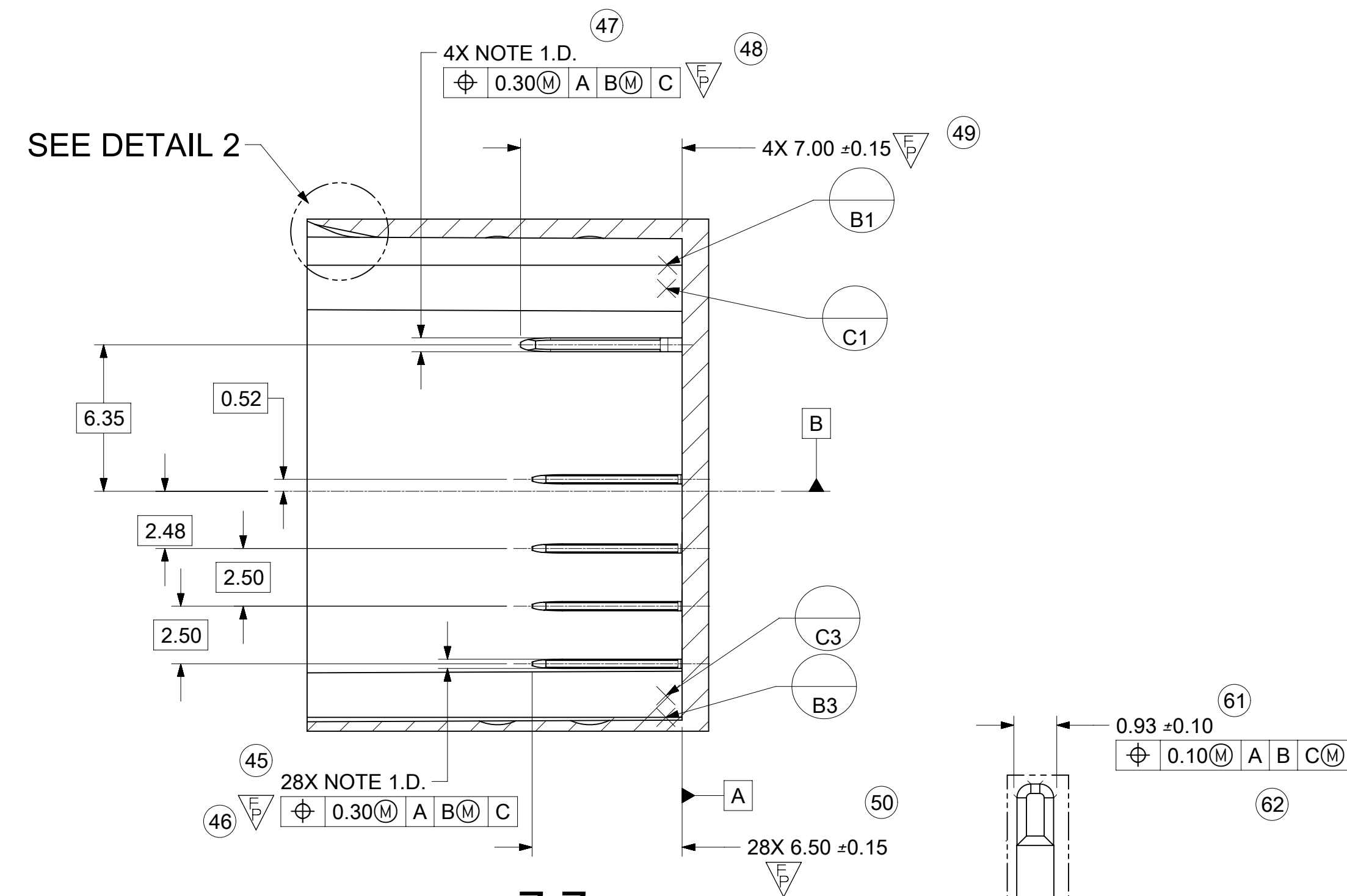
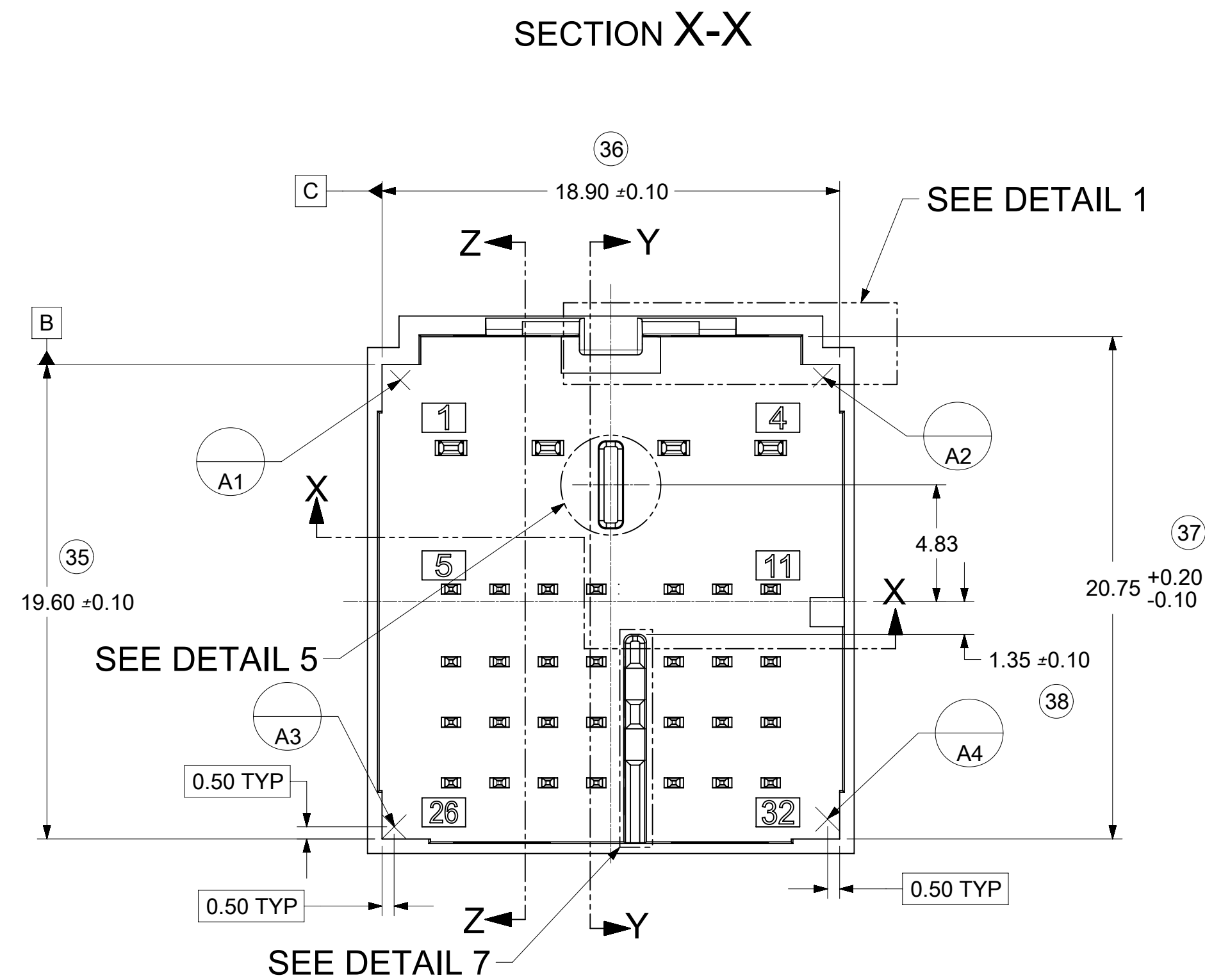
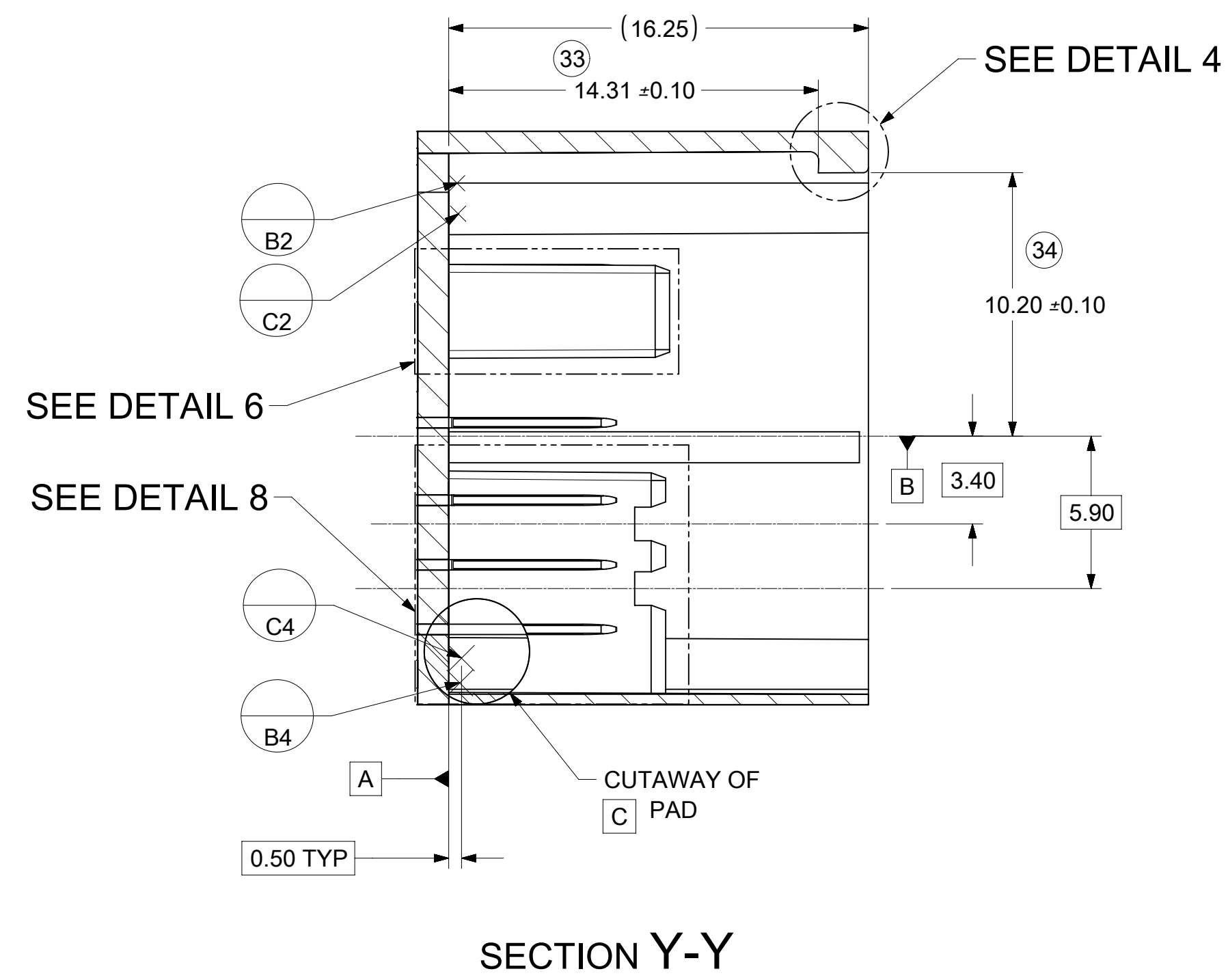
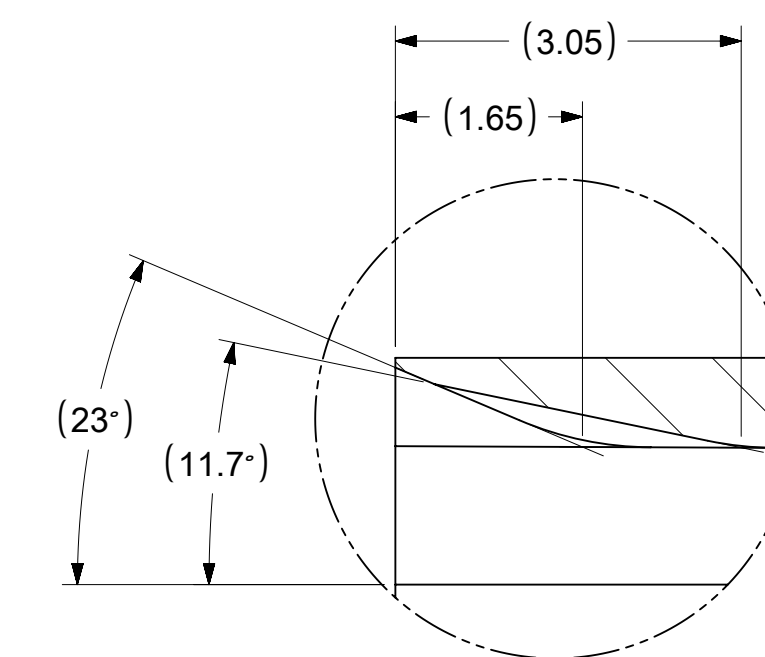
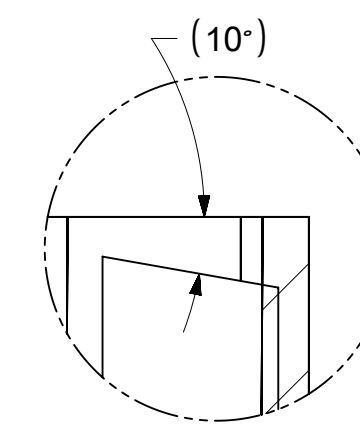
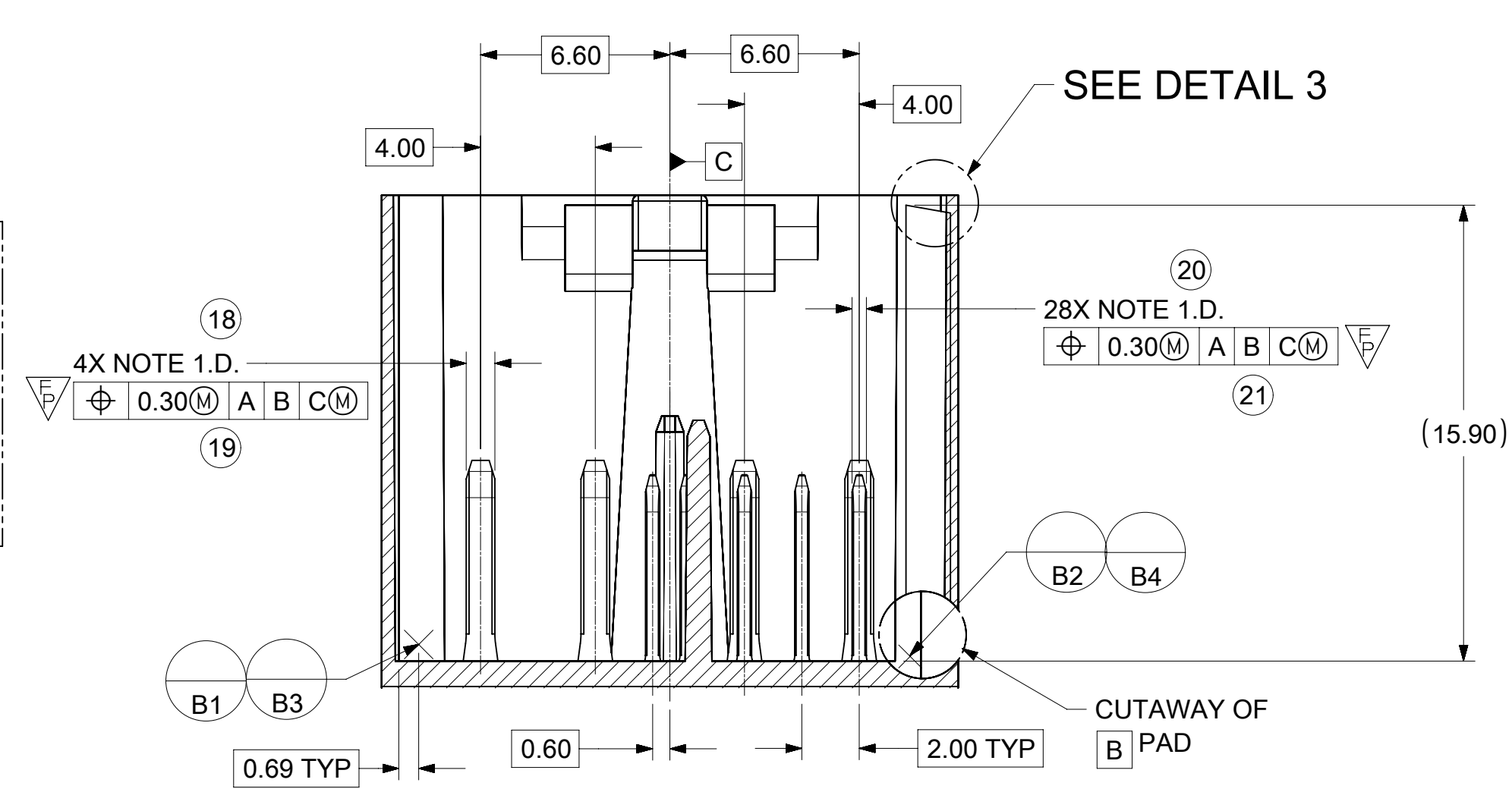
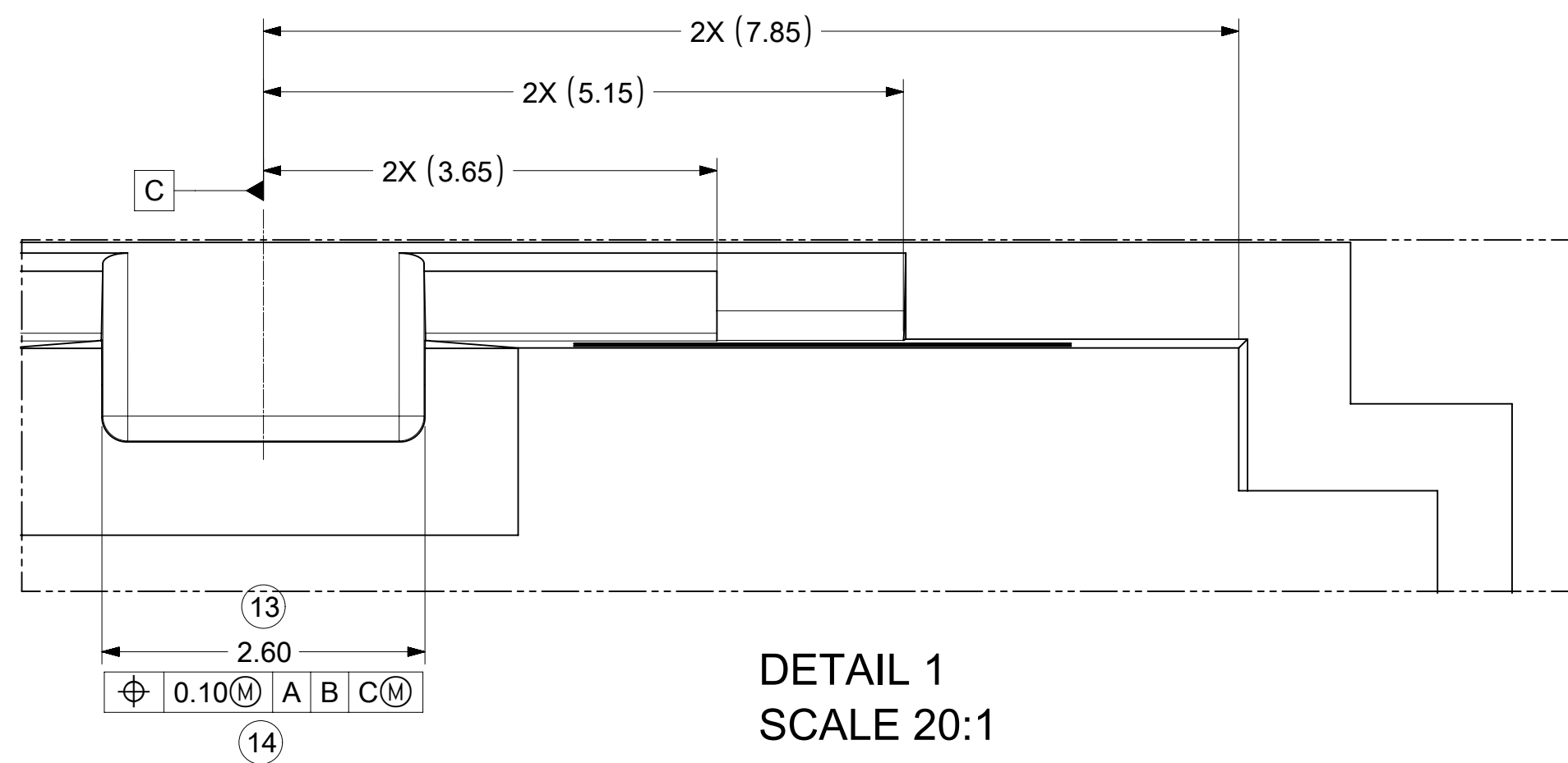


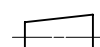
RIB OPTION B

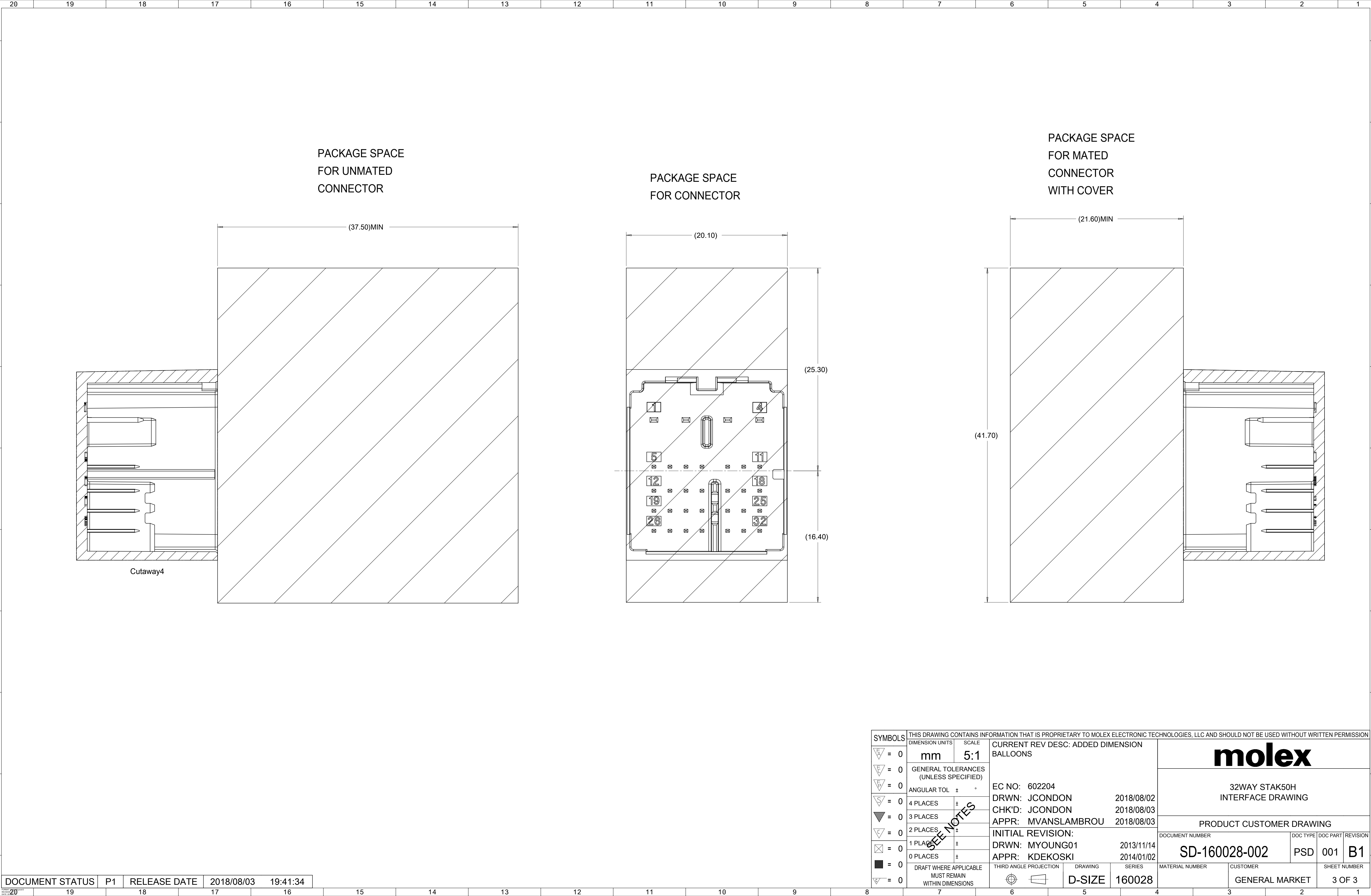


B1	ADDED BALLOONS JCONDON 08/02/2018
B	REMOVED 0.2MM FROM CONNECTOR LOCK TAB FEATURE
A1	ADDED NOTE 1.E JCONDON 11/13/2017
A	NX-REMASTERING SAP # 10867412
7	UAU2016-1182 SAP # 10762453 JCONDON 02/08/2016
6	UAU2015-1446 SAP # 10681629 JCONDON 03/25/2015
5	UAU2015-1212 SAP # 10674908 JCONDON 02/06/2015
4	UAU2015-0982 SAP # 10670199 JCONDON 12/22/2014
3	UAU2014-1679 SAP # XXXXXXXXX KDEKOSKI 05/02/2014
2	UAU2014-1221 SAP # XXXXXXXXX MYOUNG01 02/06/2014
1	UAU2014-0715 SAP # XXXXXXXXX MYOUNG01 01/02/2014
REV	DESCRIPTION

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED DIMENSION BALLOONS			molex								
	mm		5:1													
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				32WAY STAK50H INTERFACE DRAWING											
 = 0																
 = 0	ANGULAR TOL ± °				PRODUCT CUSTOMER DRAWING											
 = 0	4 PLACES ±															
 = 0	3 PLACES				DOCUMENT NUMBER DOC TYPE DOC PART REVISION											
 = 0	2 PLACES ±															
 = 0	1 PLACES ±				SD-160028-002 PSD 001 B1											
 = 0	0 PLACES ±															
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
 = 0									D-SIZE		160028		GENERAL MARKET		1 OF 3	



SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
 = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED DIMENSION BALLOONS															
 = 0		mm		5:1																	
 = 6		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 602204				32WAY STAK50H INTERFACE DRAWING											
 = 0		ANGULAR TOL ± °																			
 = 0		4 PLACES		±		DRWN: JCONDON				2018/08/02											
 = 0		3 PLACES		±		CHK'D: JCONDON				2018/08/03											
 = 0		2 PLACES		±		APPR: MVANSLAMBROU				2018/08/03											
 = 0		1 PLACE		±		INITIAL REVISION:01				PRODUCT CUSTOMER DRAWING											
= 0		0 PLACES		±		DRWN: MYOUNG01								DOCUMENT NUMBER				DOC TYPE		DOC PART	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		SD-160028-002				PSD		001		B1	
										D-SIZE		160028		MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
																GENERAL MARKET				2 OF 3	



SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED DIMENSION BALLOONS				molex							
mm		5:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL		± °		EC NO: 602204				32WAY STAK50H INTERFACE DRAWING							
4 PLACES		±		DRWN: JCONDON 2018/08/02											
3 PLACES		±		CHK'D: JCONDON 2018/08/03											
2 PLACES		±		APPR: MVANSLAMBROU 2018/08/03				PRODUCT CUSTOMER DRAWING							
1 PLACE		±		INITIAL REVISION:											
0 PLACES		±		DRWN: MYOUNG01 2013/11/14											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				D-SIZE		160028		SD-160028-002		PSD		001		B1	
								MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
										GENERAL MARKET				3 OF 3	