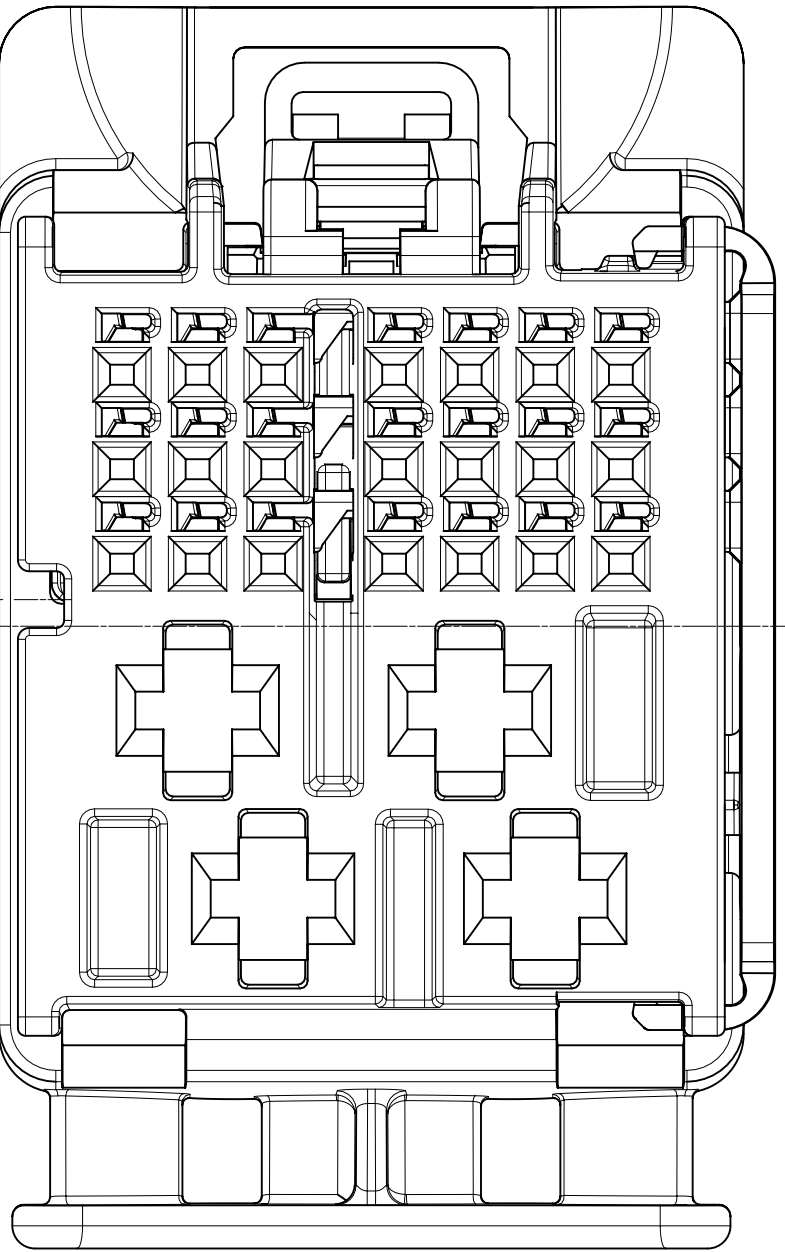
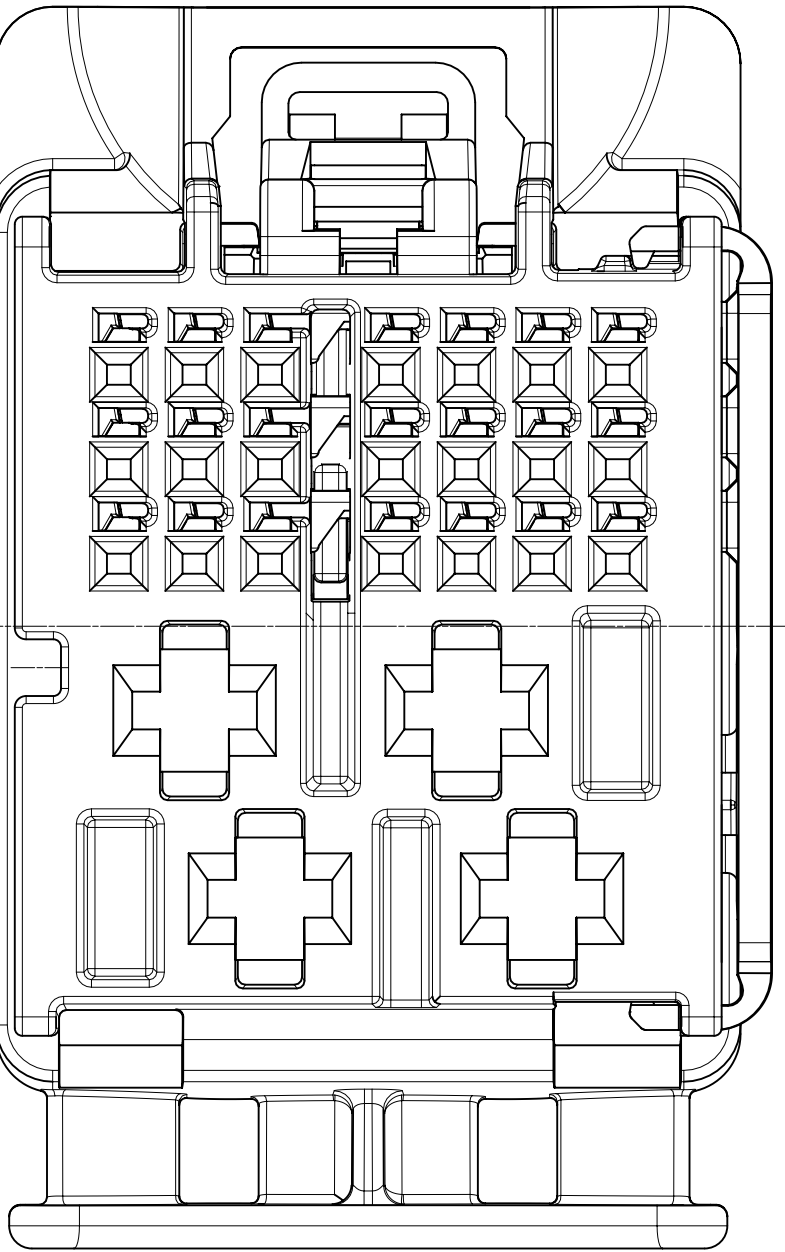


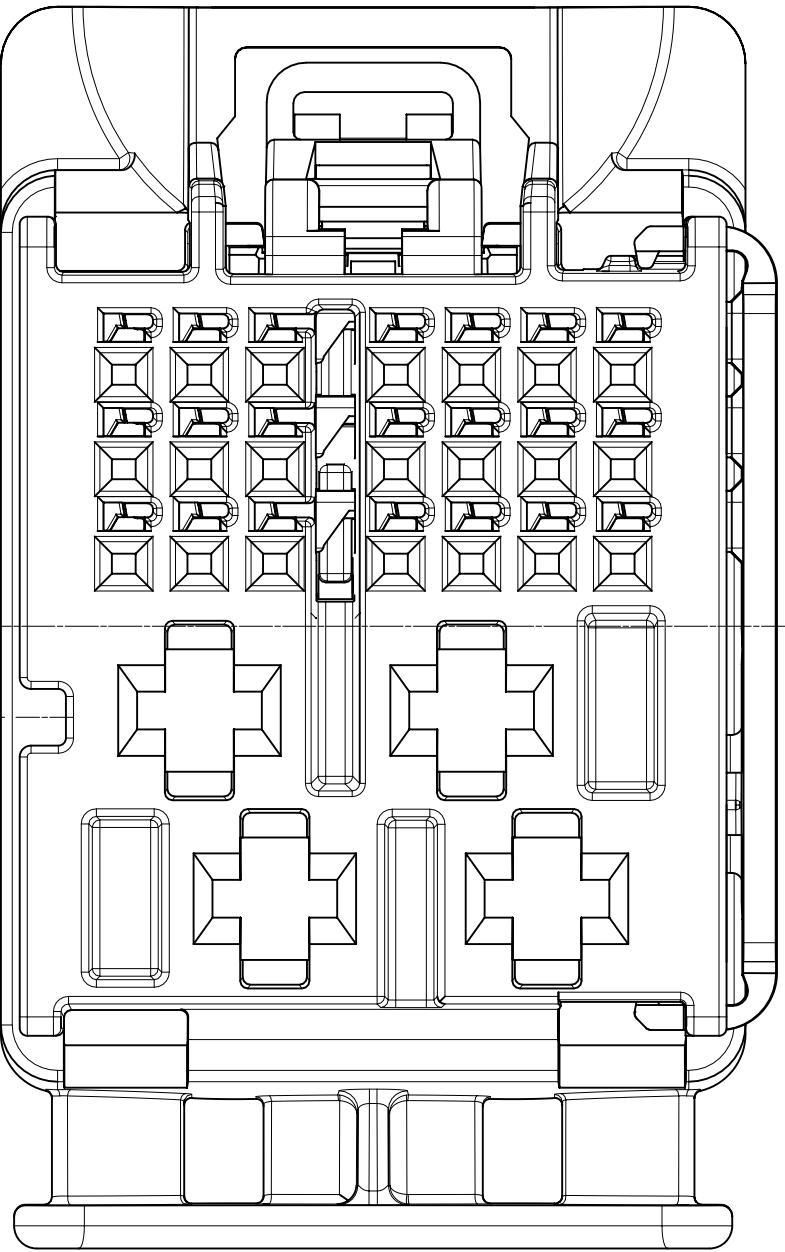


25 WAY CONNECTOR ASSEMBLY
KEY 1 & KEY 5

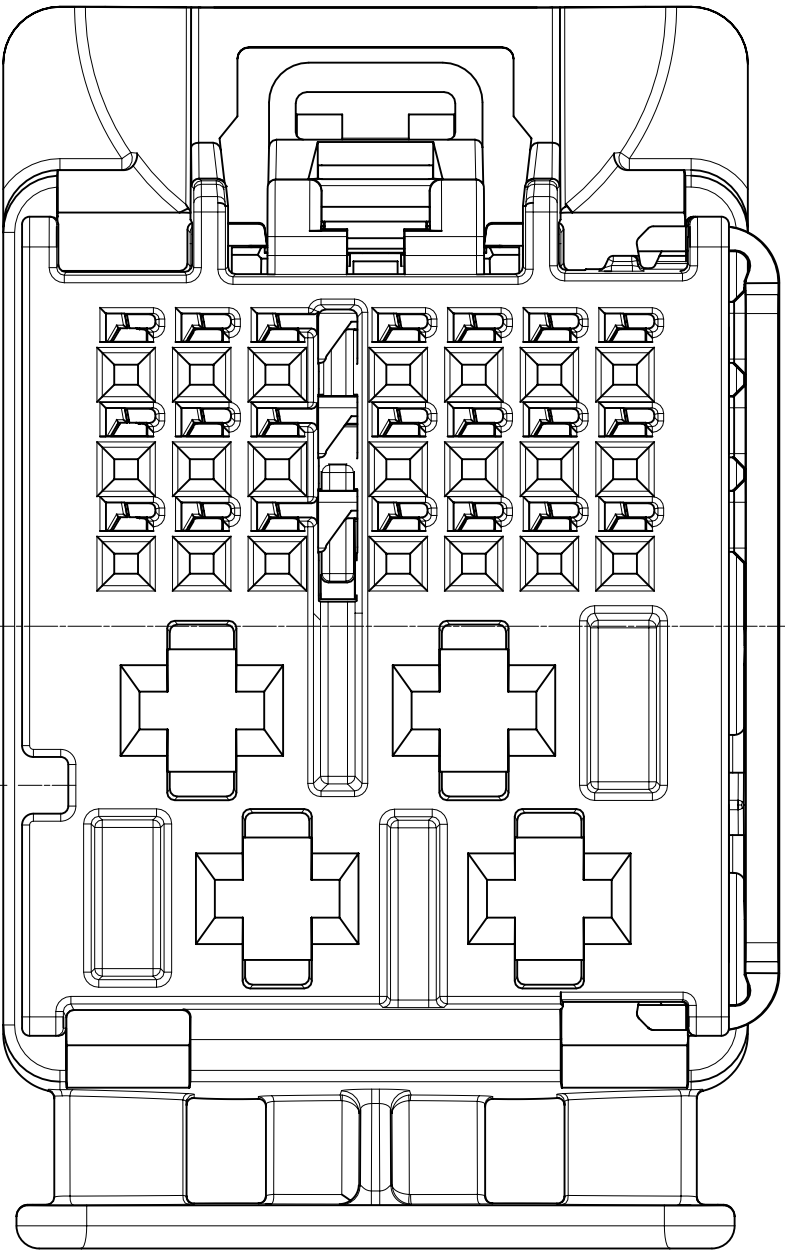
PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-3101	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-3201	TIN PLATING	MOLEX	0.13	TAK FAMILY (0.5 mm)	
2272196-2	TIN PLATING	TE	0.35	Generation 50 Locking Lance (0.5mm)	SAE/ J1128 THIN WALL INSULATION
2272196-1	TIN PLATING	TE	0.13	Generation 50 Locking Lance (0.5mm)	
1-968851-1	TIN PLATING	TE	1.0 - 2.5	AMP MCP 2.8	
1-968849-1	TIN PLATING	TE	0.5 - 1.0	AMP MCP 2.8	GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL)
15457849	TIN PLATING	DELPHI	1.5 - 2.5	CTS 2.8mm	
15457848	TIN PLATING	DELPHI	0.5 - 1.0	CTS 2.8mm	



25 WAY CONNECTOR ASSEMBLY
KEY 2 & KEY 6



25 WAY CONNECTOR ASSEMBLY
KEY 3 & KEY 7



25 WAY CONNECTOR ASSEMBLY
KEY 4 & KEY 8

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

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

2. DESIGN - MATERIALS:

- SEE BOM TABLE

3. DESIGN - GEOMETRY:

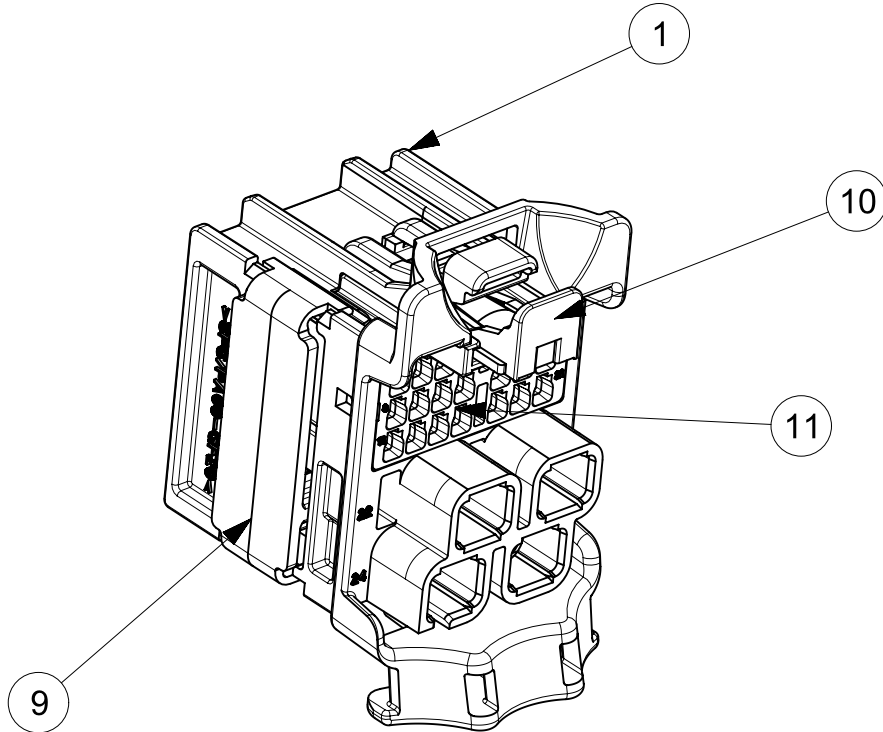
- ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
- PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
- GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
- EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- MARKED TEXT TO INCLUDE RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION AND CUSTOMER MATERIAL NUMBER.
 - 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
 - LASER ETCHED ASSEMBLY LINE
" _X" DENOTES CAPACITY ASSEMBLY LINE SUCH AS"-_2" OR MORE IN FUTURE

4. DESIGN - MANUFACTURING:

- VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

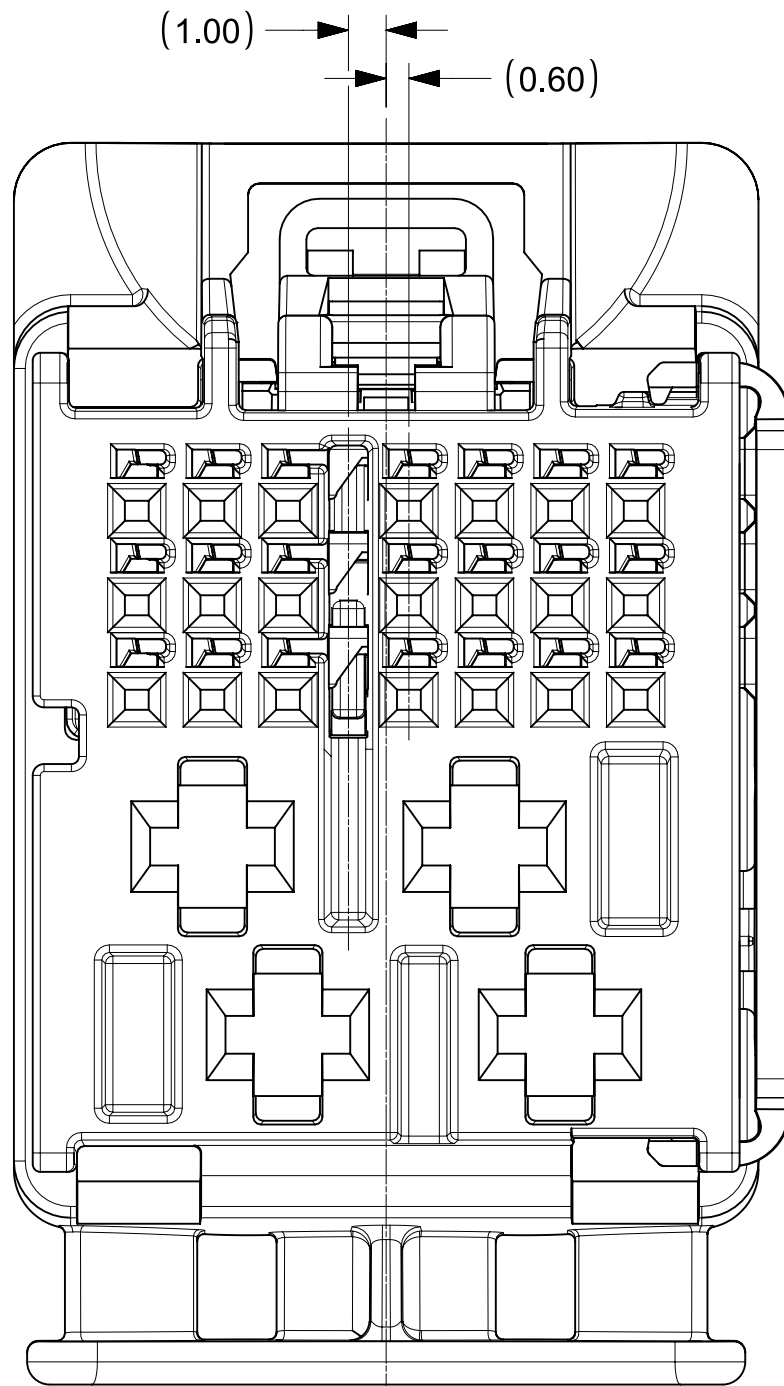
MOLEX ASSEMBLY PART NO.'S	
1600270011	KEY 1
1600270012	KEY 2
1600270013	KEY 3
1600270014	KEY 4
1600270015	KEY 5
1600270016	KEY 6
1600270017	KEY 7
1600270018	KEY 8

ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	RIB OPTION	NO OF ITEMS REQUIRED							
1	OUTER SHROUD - KEY 1	LIGHT GREEN B	SPS/PA66-GF20	4.1	A	1							
2	OUTER SHROUD - KEY 2	STONE GRAY	SPS/PA66-GF20	4.1	A		1						
3	OUTER SHROUD - KEY 3	BLACK	SPS/PA66-GF20	4.1	A			1					
4	OUTER SHROUD - KEY 4	DARK GRAY	SPS/PA66-GF20	4.1	A				1				
5	OUTER SHROUD - KEY 5	DK PURPLE A	SPS/PA66-GF20	4.1	B					1			
6	OUTER SHROUD - KEY 6	TBD	SPS/PA66-GF20	4.1	B						1		
7	OUTER SHROUD - KEY 7	TBD	SPS/PA66-GF20	4.1	B							1	
8	OUTER SHROUD - KEY 8	LT GRAY	SPS/PA66-GF20	4.1	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	1.04	N/A	1	1	1	1				
12	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.04	N/A					1	1	1	1

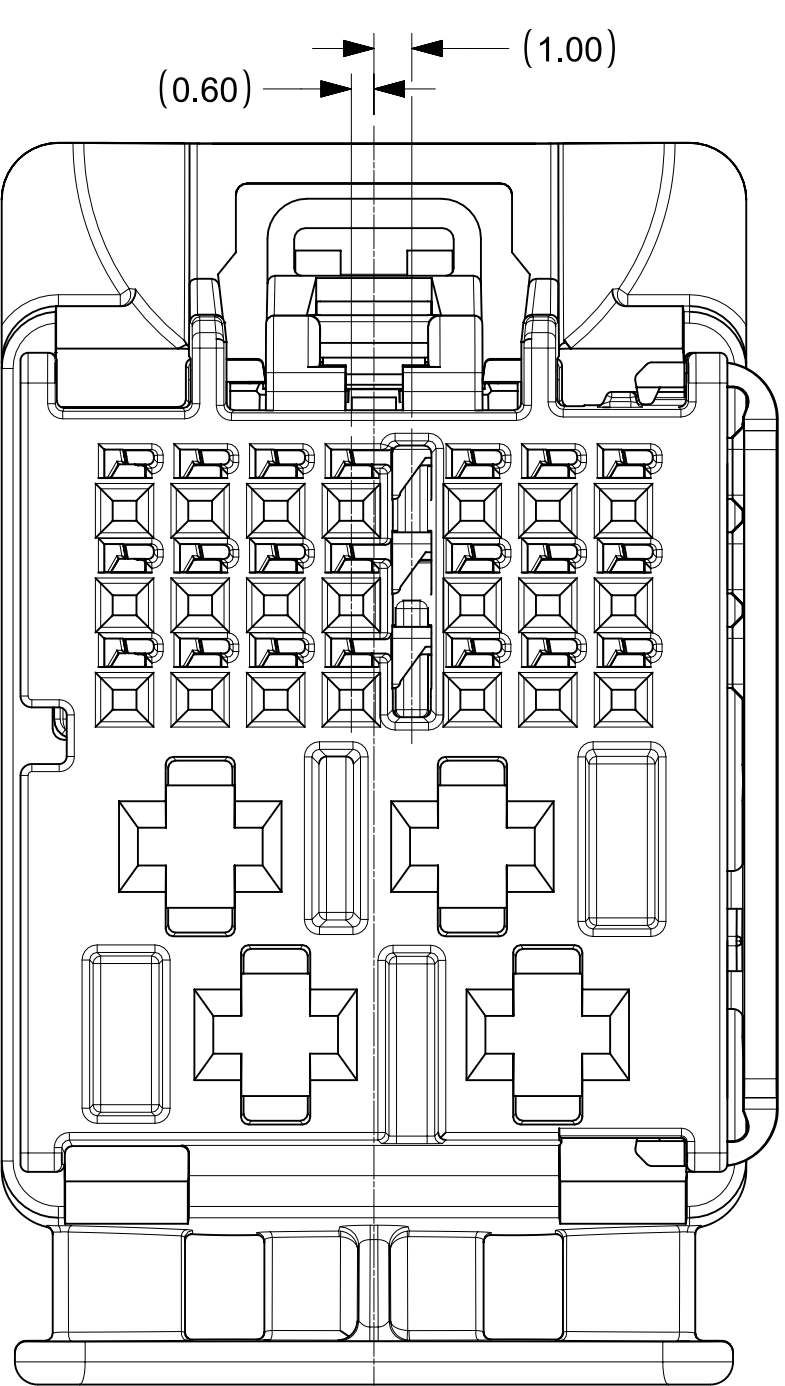


SCALE 2:1

RIB OPTION A

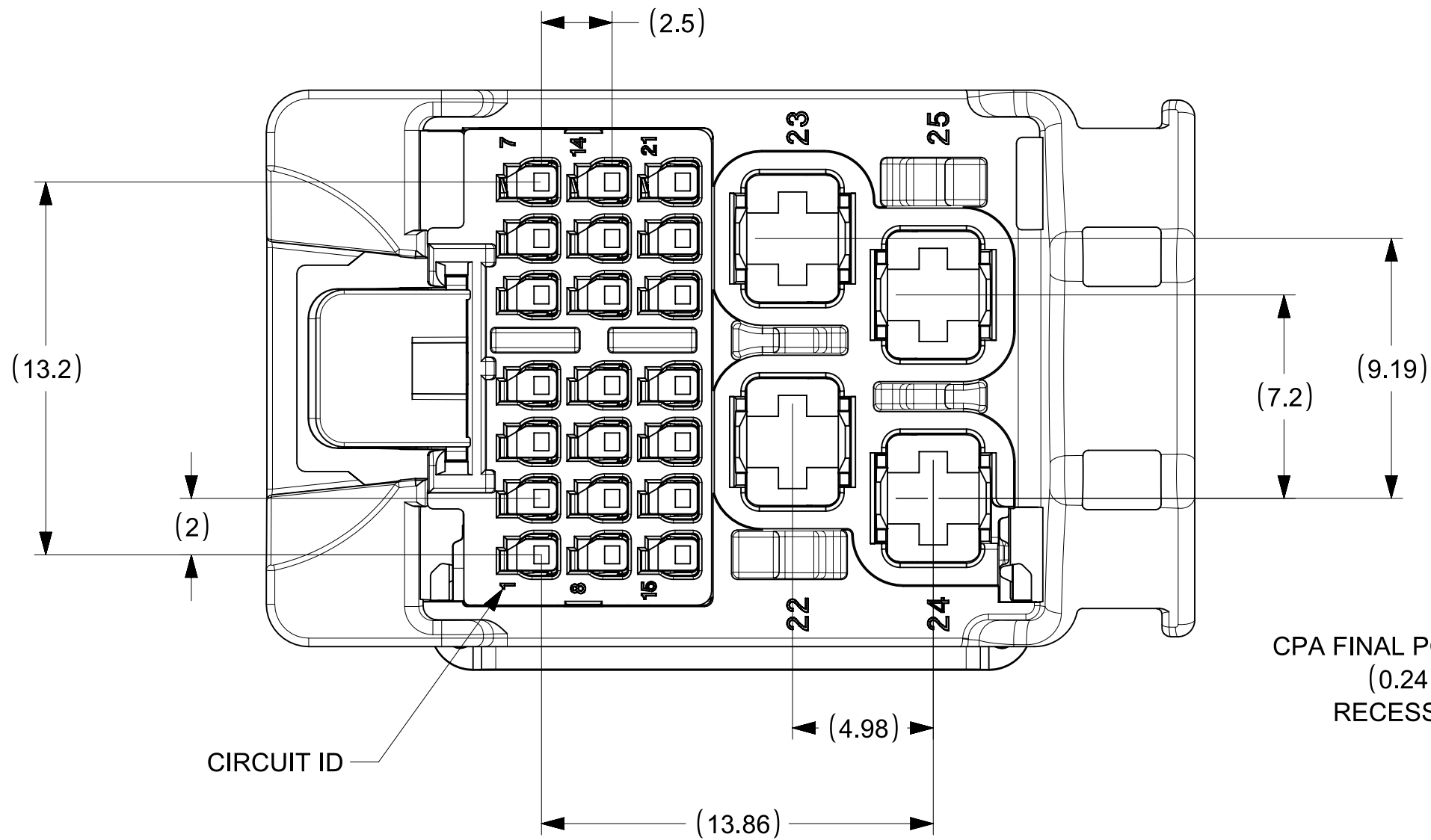
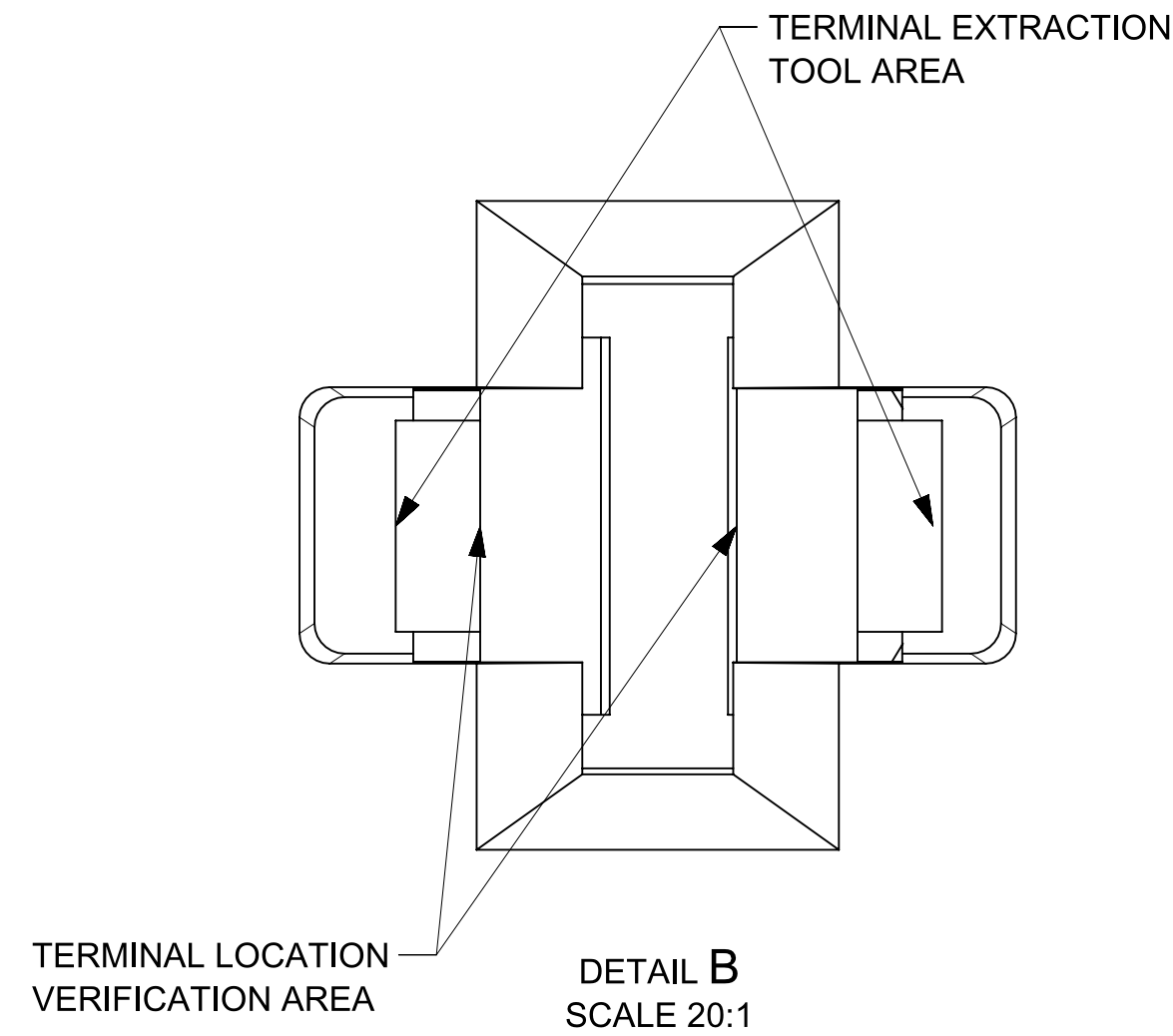
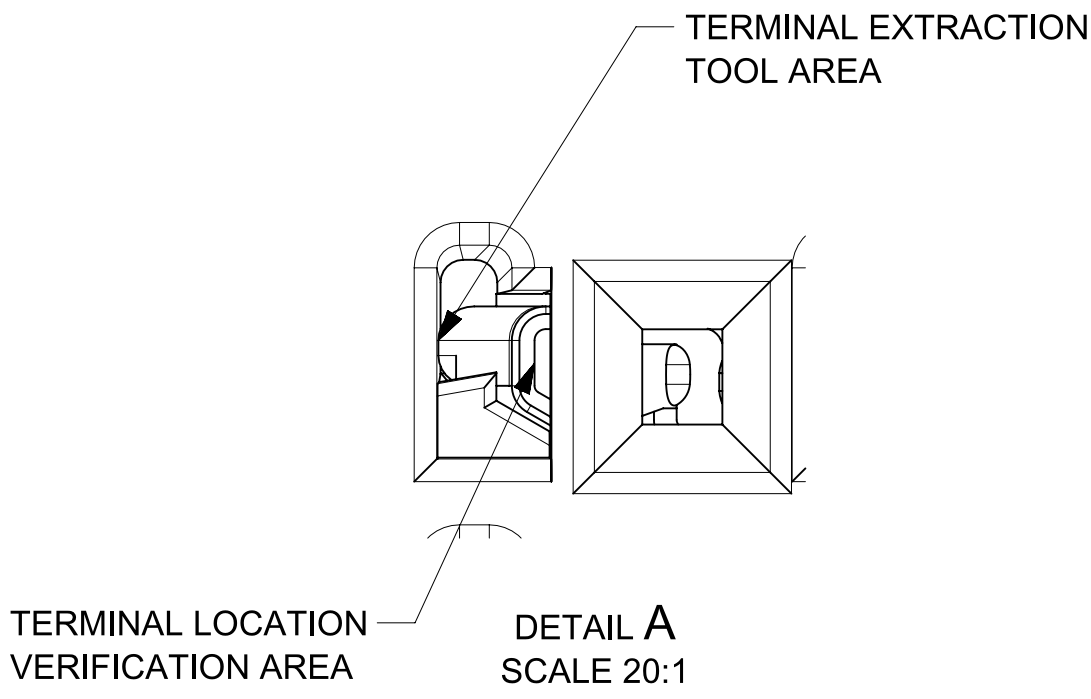


RIB OPTION B



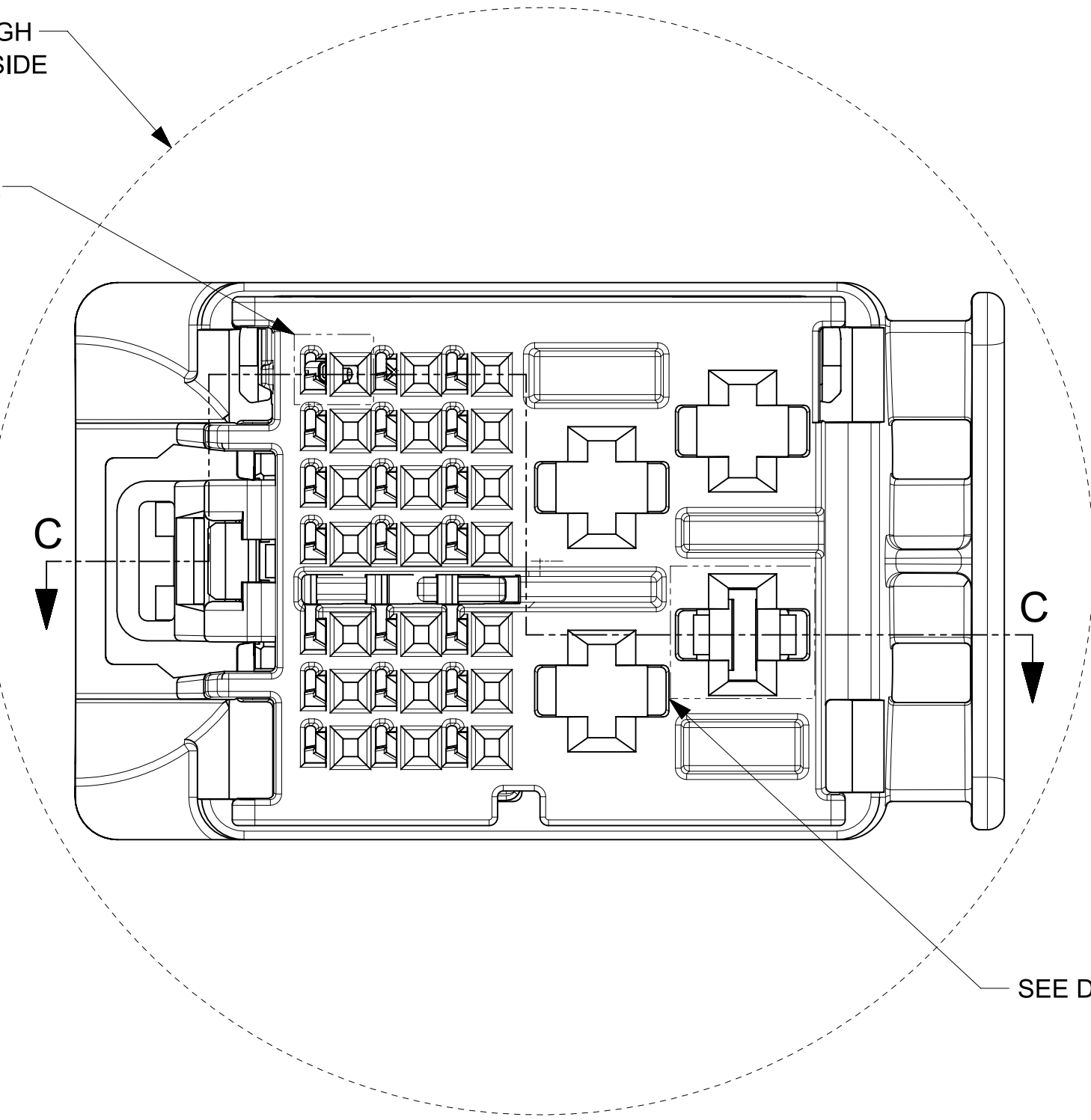
INSPECTION BALLOON NUMBER LOG			
PER DRAWING REVISION: A3			
LAST BALLOON NUMBER: 2			
ADDED BALLOON NUMBER: NONE			
DELETED BALLOON NUMBER: NONE			

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION SHEET				molex 25WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY			
F_A = 0		mm		5:1		PHASE: Design Production CO NO: CO-000000983 DRWN: Kun Du 2022-05-12 CHK'D: Ringo Hu 2022-07-27 APPR: Colin Zhang 2022-11-08							
F_C = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)											
F_P = 0		ANGULAR TOL ± 3.0°											
DIVISIONAL SYMBOLS		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					
								D-SIZE		160027			



Ø(39.16) PASS THROUGH
CLEARANCE 1MM PER SIDE

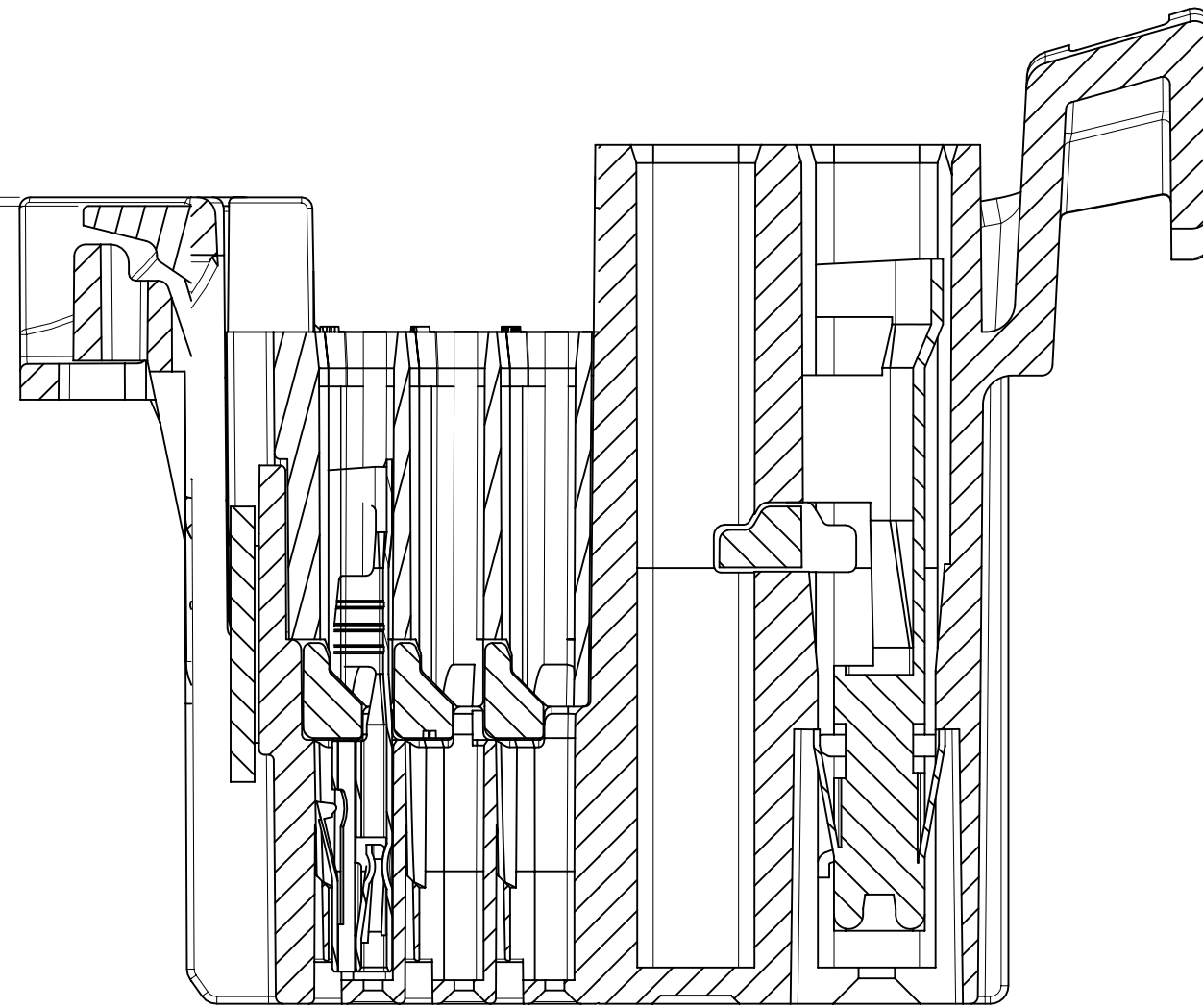
SEE DETAIL A



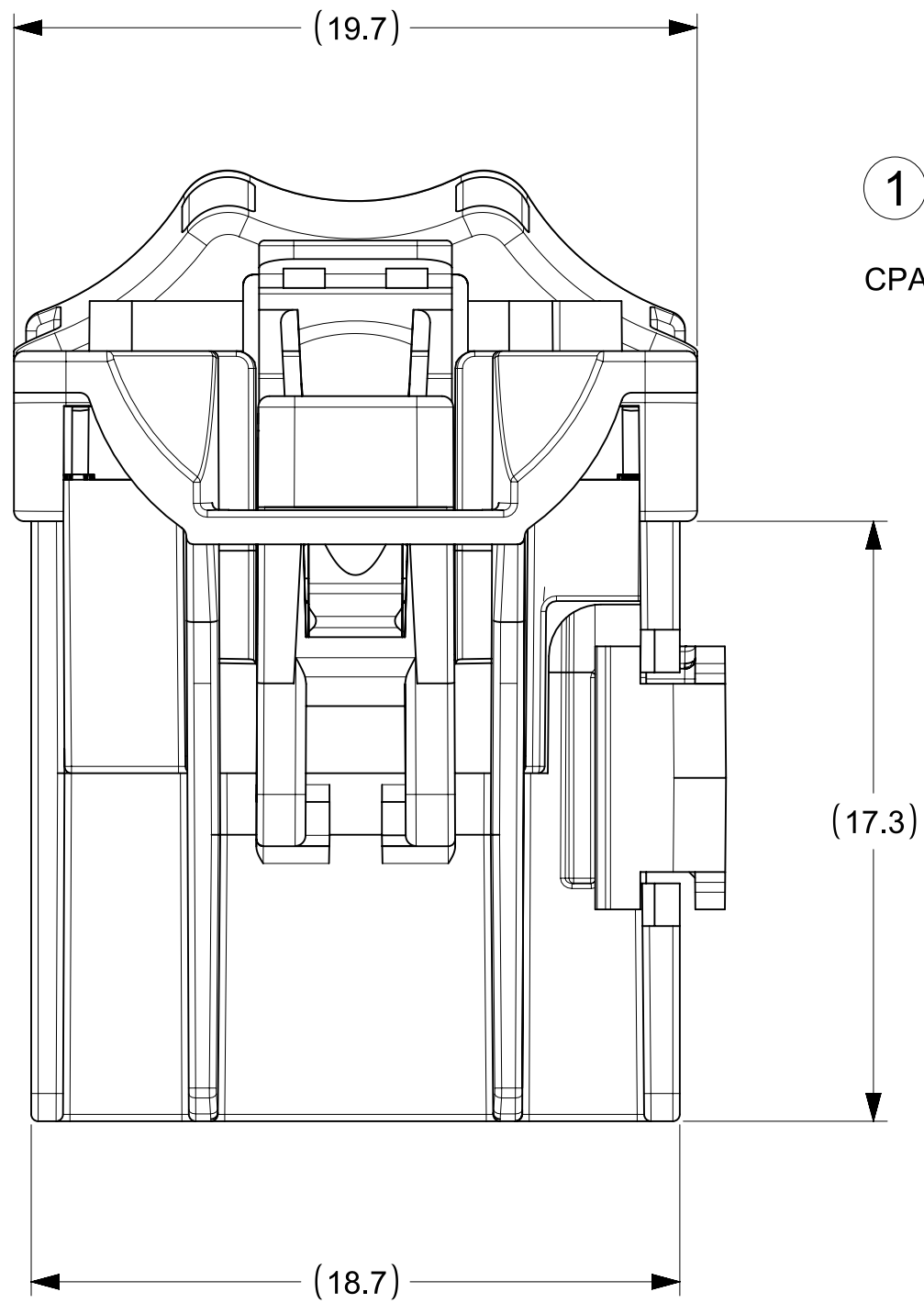
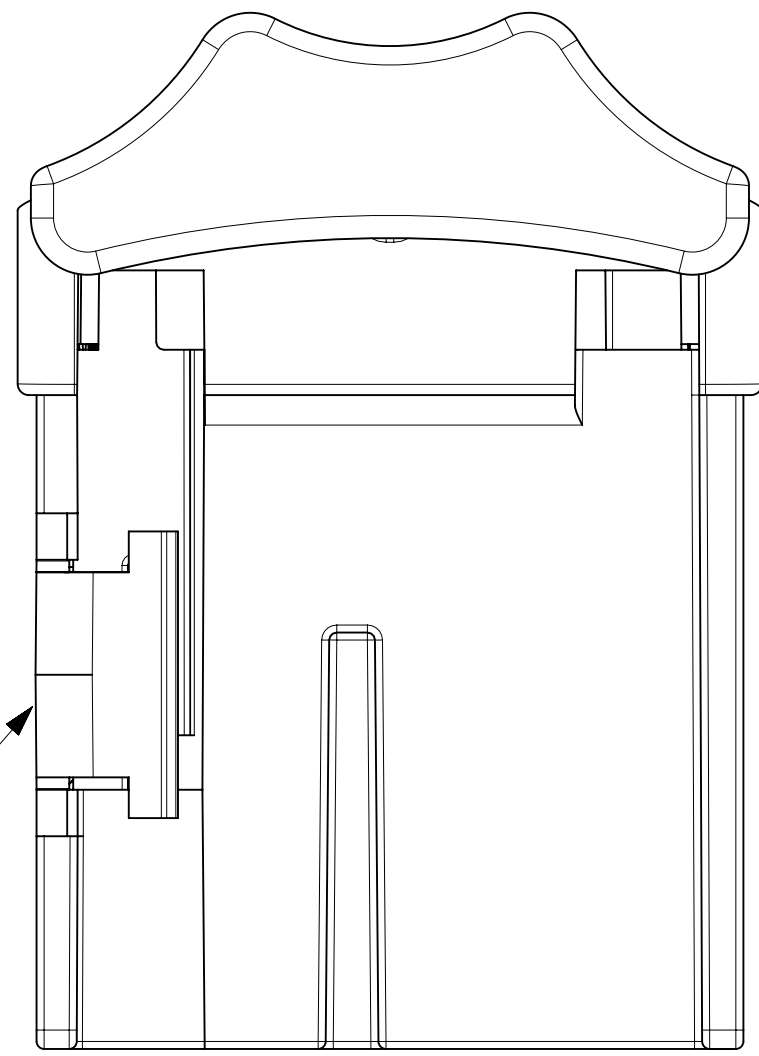
LASER ETCH
DATE CODE AND
ASSEMBLY LINE

YYDDD
HHMMSS_X

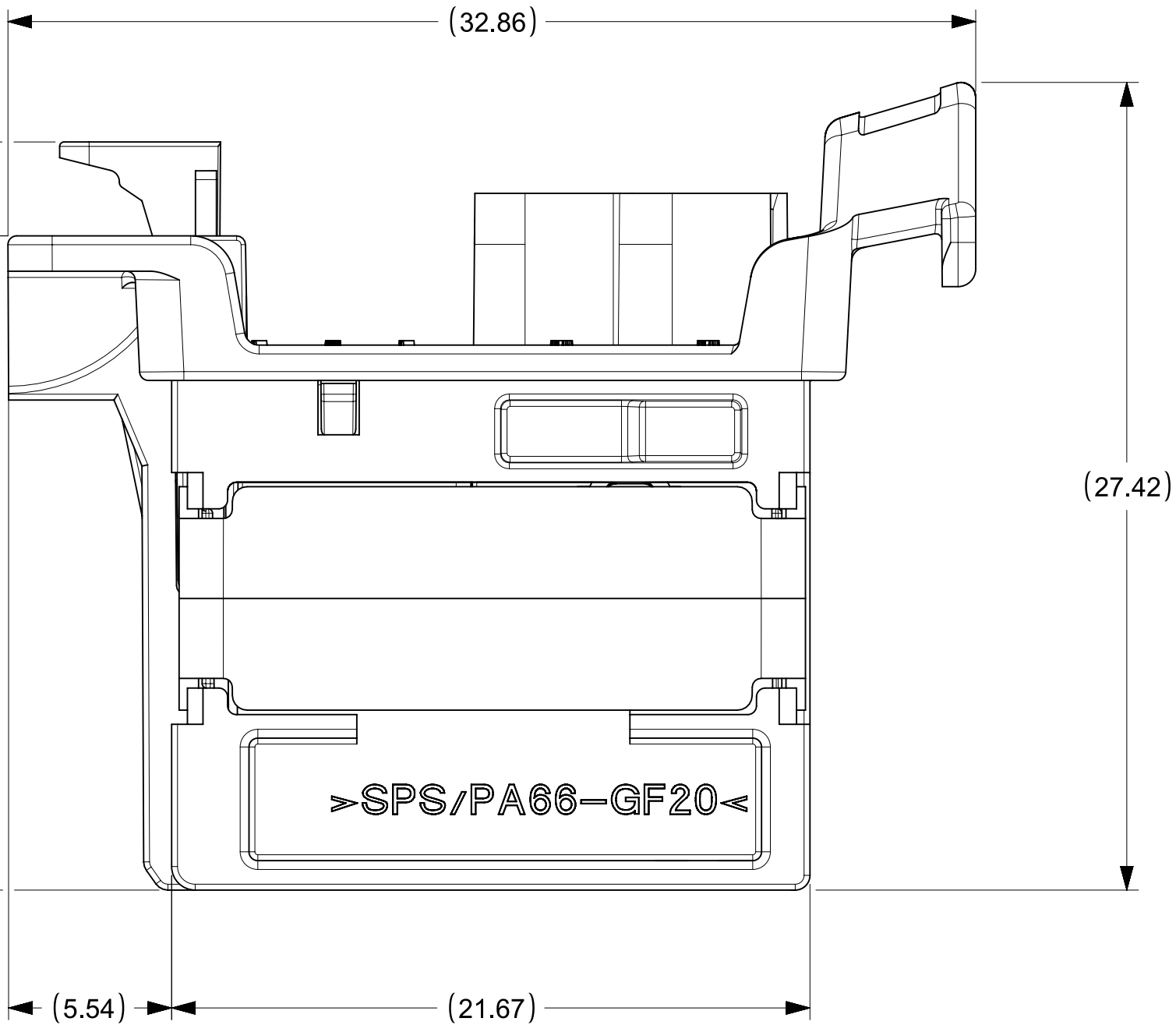
②
1.30 ±0.30
ISL IN OPEN
POSITION



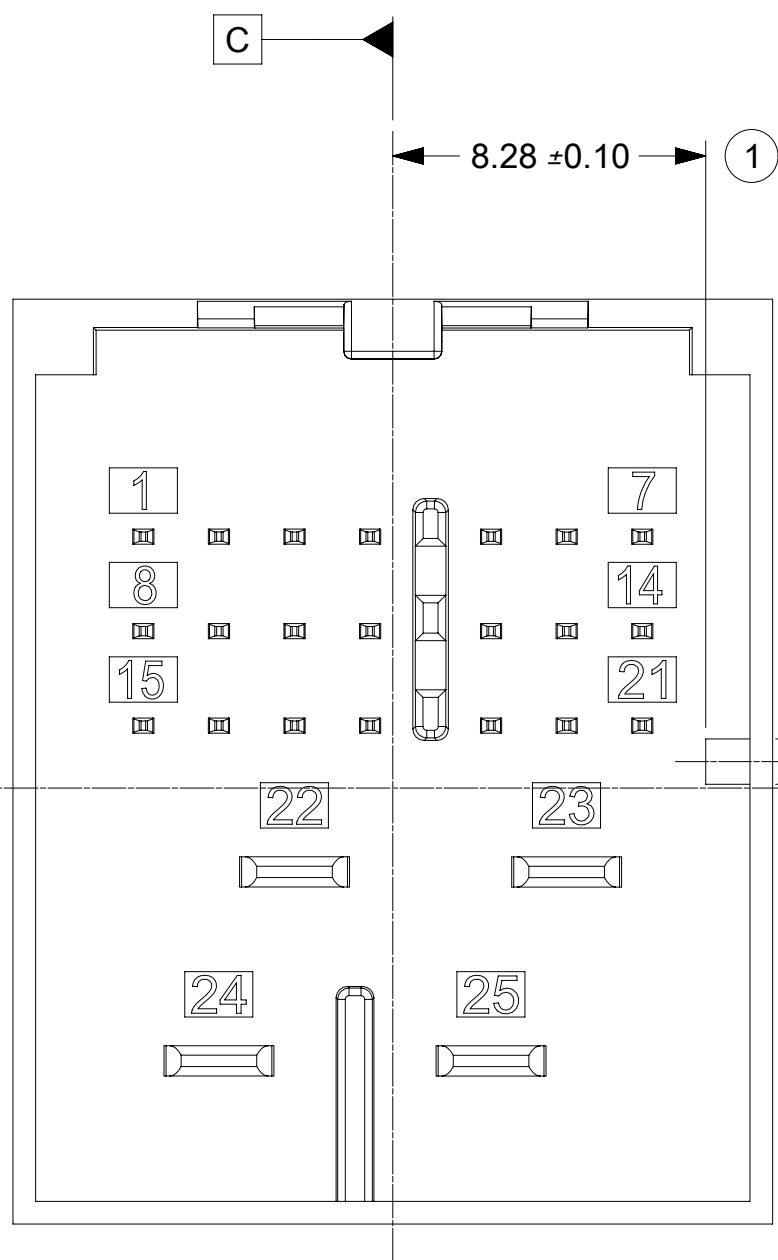
ISL IN CLOSED
POSITION



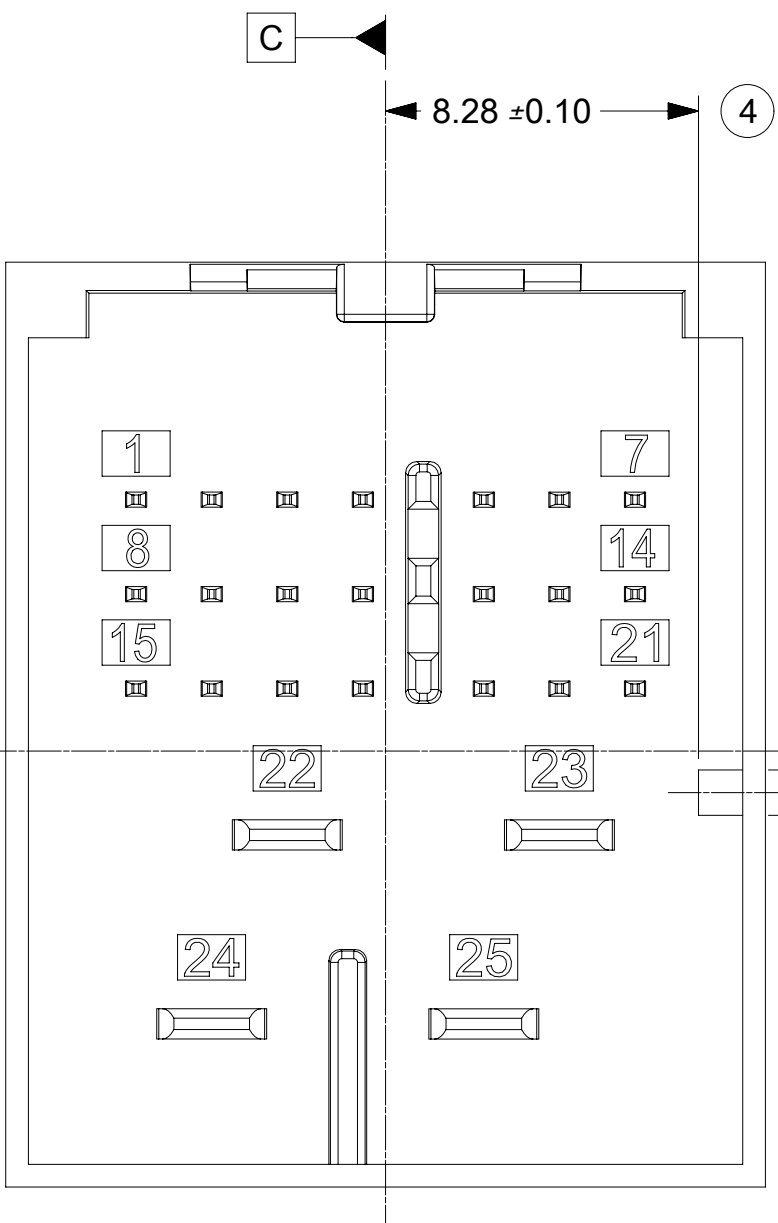
①
CPA PRELOAD POSITION
3.2 ±0.3



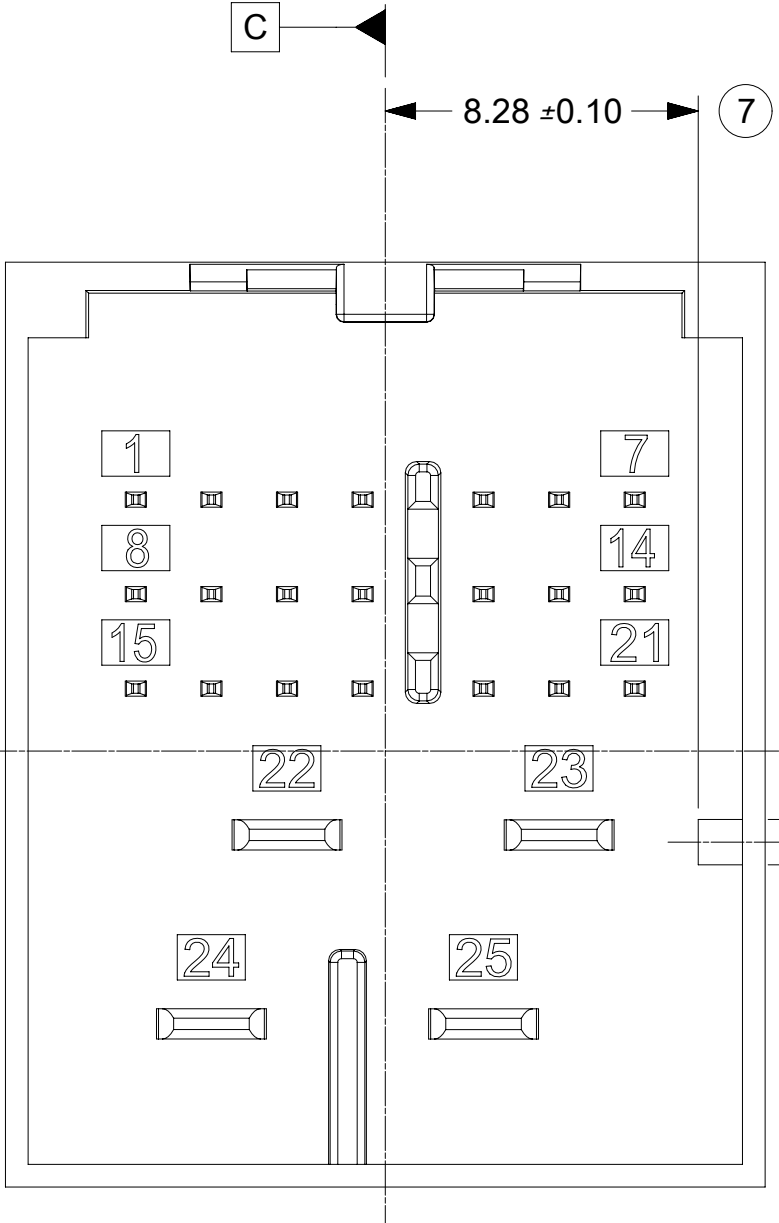
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
	DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION SHEET			molex 25WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY		
F_A = 0	mm	5:1								
F_C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		PHASE: Design Production CO NO: CO-000000983 DRWN: Kun Du 2022-05-12 CHK'D: Ringo Hu 2022-07-27 APPR: Colin Zhang 2022-11-08			PRODUCT SALES DRAWING				
F_P = 0	ANGULAR TOL ± 3.0°									
DIVISIONAL SYMBOLS	4 PLACES	±								
	3 PLACES	±								
	2 PLACES	± 0.300								
	1 PLACE	± 0.30								
0 PLACES	± 0.30	INITIAL REVISION:			DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
		DRWN: RCARLSON			1600270011			PSD	000	A4
		APPR:								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
					D-SIZE	160027		GENERAL MARKET		2 OF 2



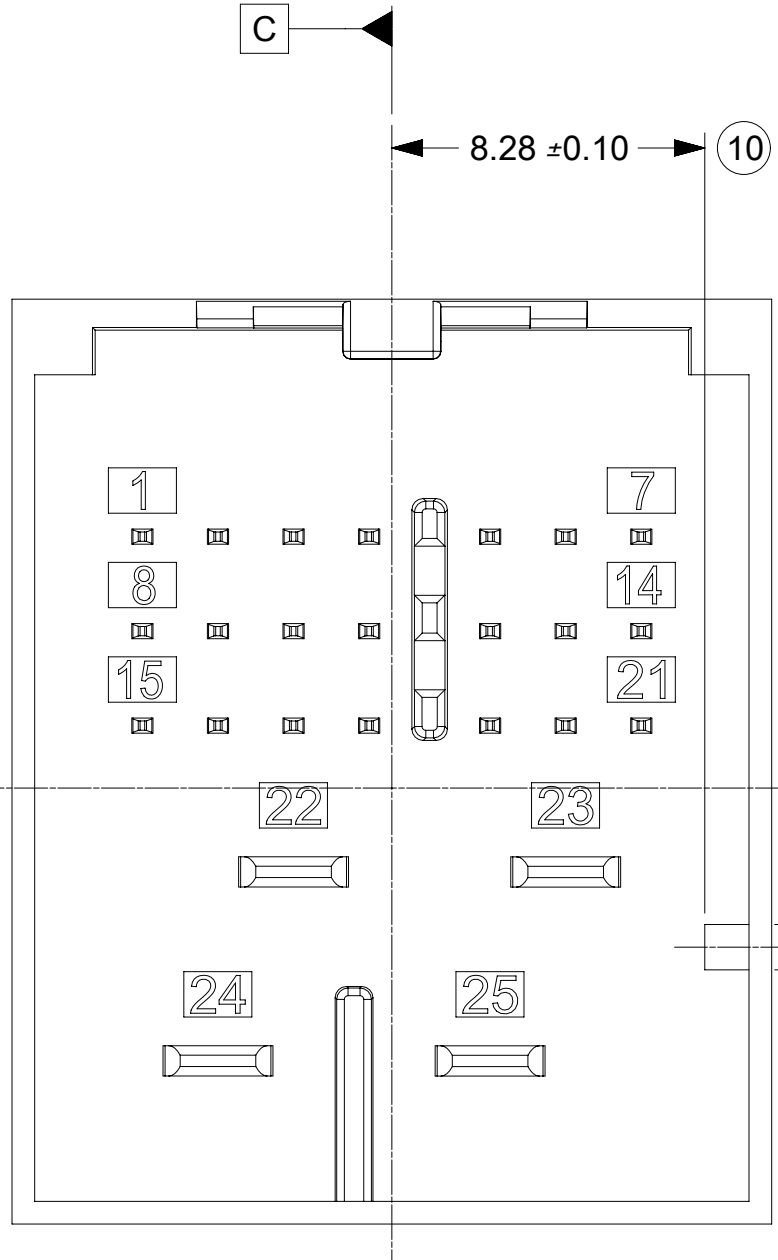
INTERFACE KEY 1 & KEY 5



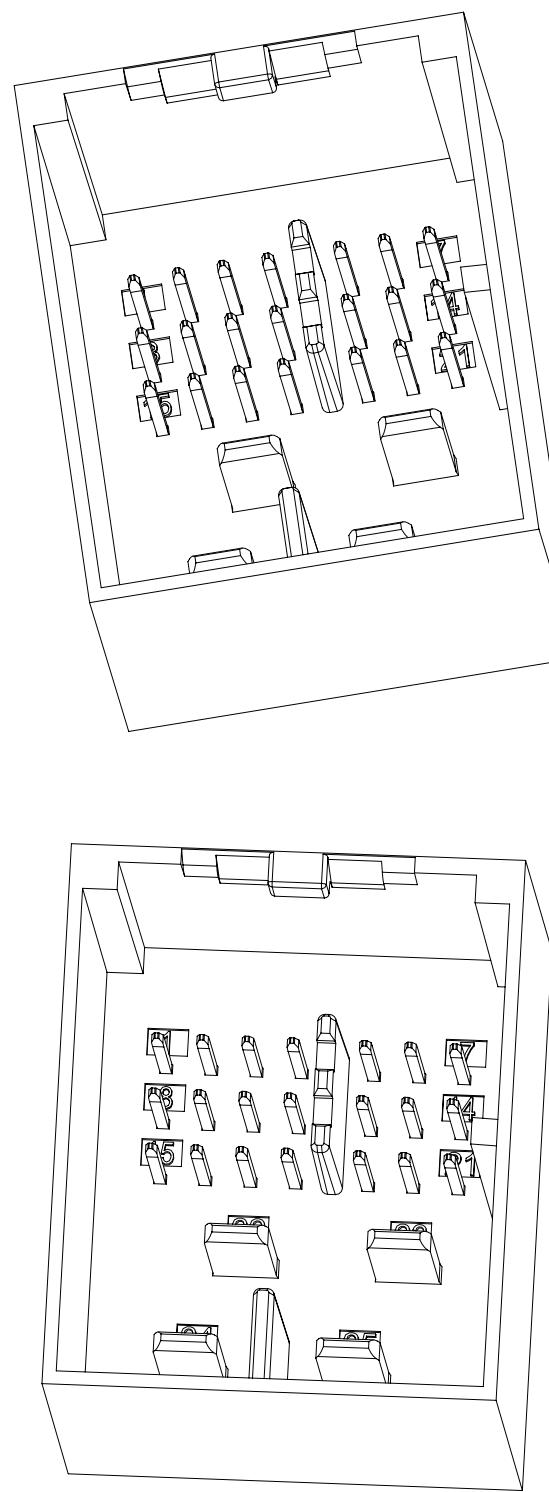
INTERFACE KEY 2 & KEY 6



INTERFACE KEY 3 & KEY 7



INTERFACE KEY 4 & KEY 8



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

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 (050-T001 & 280-T001)
 - DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE (ELECTRICAL/MECHANICAL) IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.
 - DEVIATION TO TIN PLATING THICKNESS AS NECESSARY TO MEET MATING FORCE AND ALL VALIDATION REQUIREMENTS
- DRAWING - 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

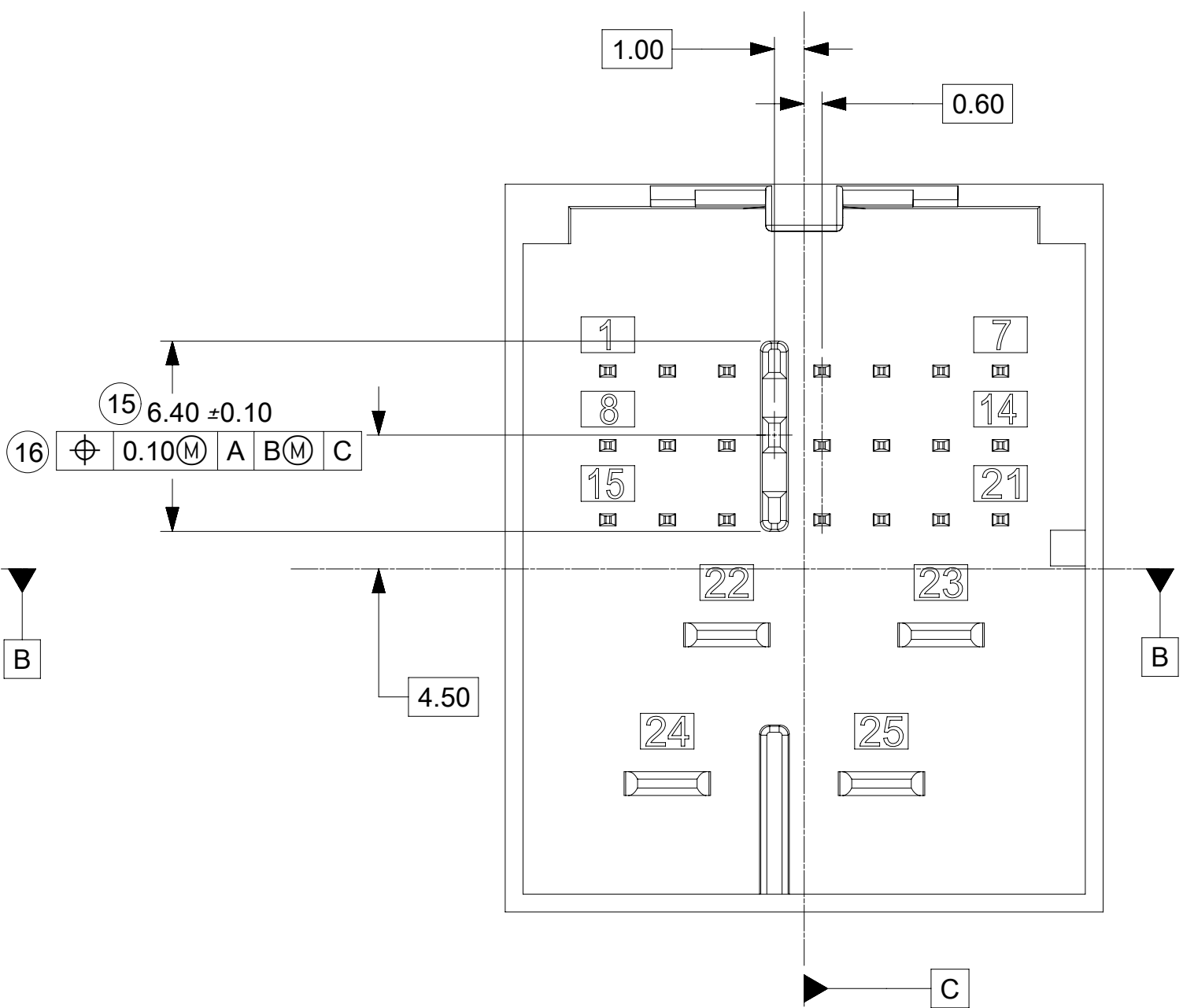
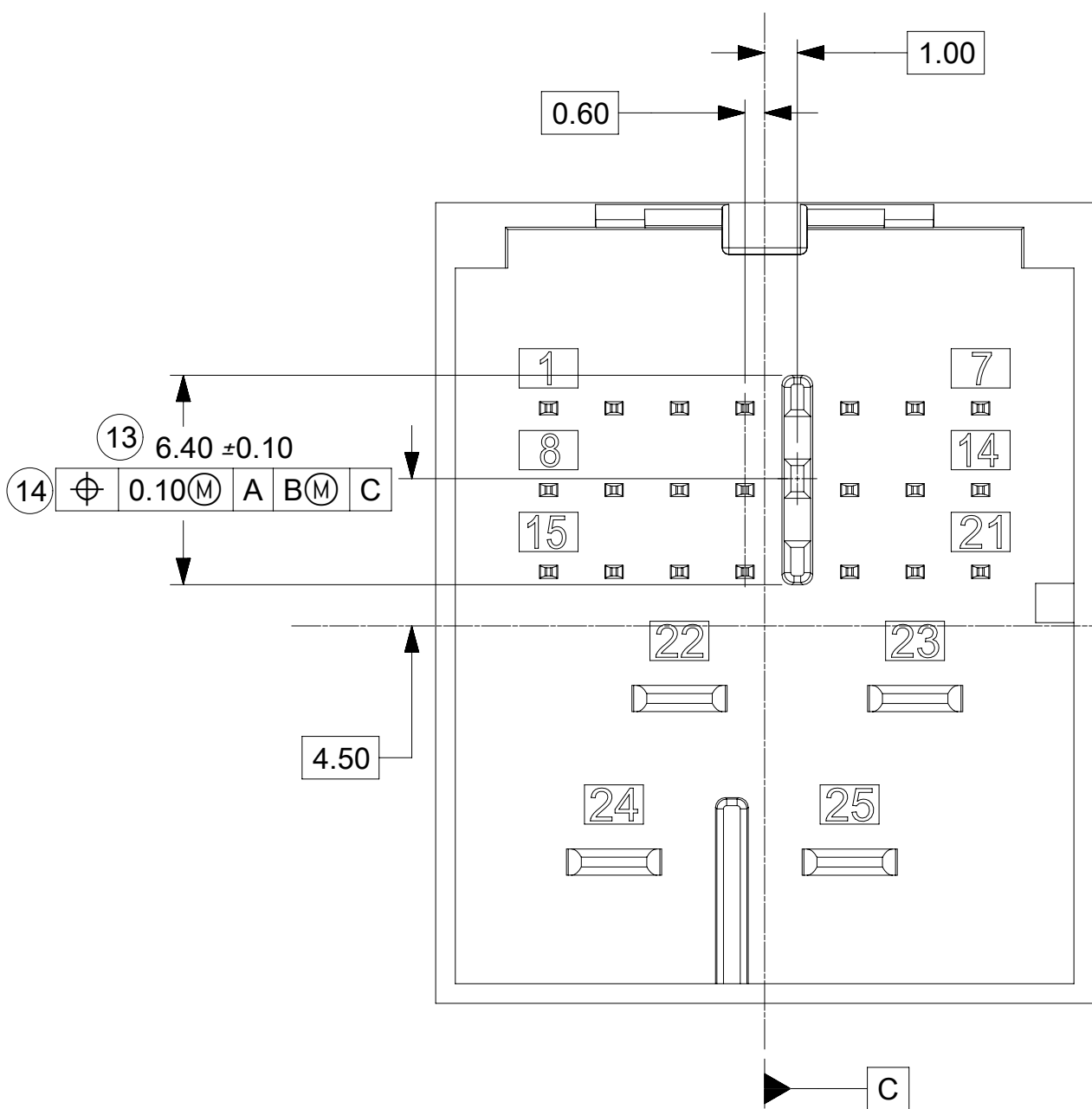
ANGULAR : ±3°
 - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - CORNERS SHOW AS SHARP TO BE R 0.2 MAX.
 - LETTERS SHALL BE 0.2 MAX RAISED IN 0.25 MAX RECESSED PAD.

THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- DESIGN - MANUFACTURING:
 - DRAFT TO BE WITHIN TOLERANCE.

C1	UPDATED BASIC DIMENSIONS IN SECTION B-B ON SHEET 2 ECN: 649575 11/19/2020 YPENG47
C	ADDED 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1 CHANGE RECORD: 626144 JPATE 10/22/2019
B1	ADDED BALLOONS JCONDON 08/02/2018
B	REMOVED 0.2MM FROM CONNECTOR LOCK TAB FEATURE
A2	ADDED CIRCUIT IDs
A1	ADDED NOTE 1e, MKOWALSKY 7/7/2017
8	GEOMETRY UPDATED , SPEMMARAJU 02/18/2016
7	UAU2016-1146 SAP # 10681629 JCONDON 03/25/2015

RIB OPTION A

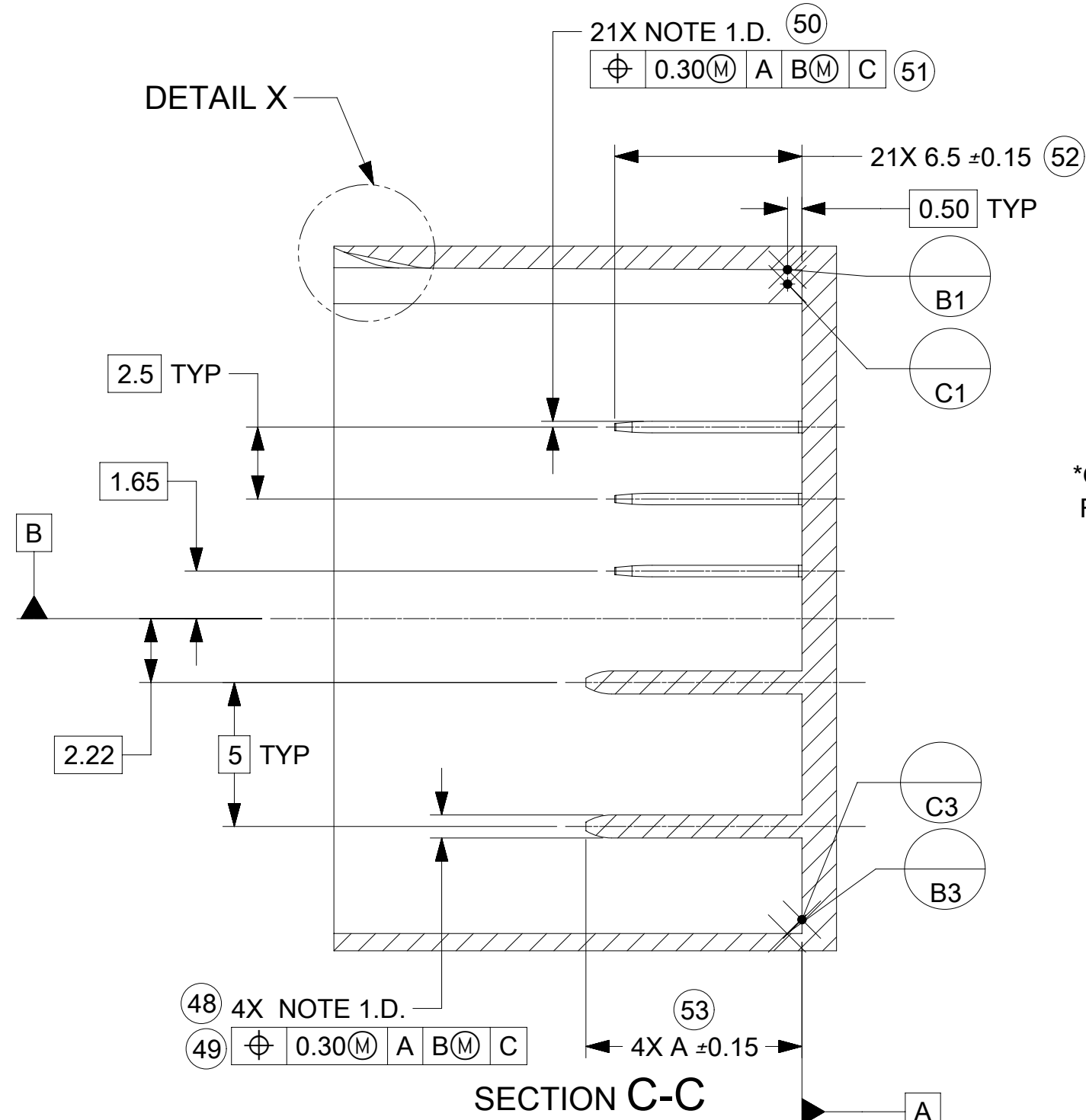
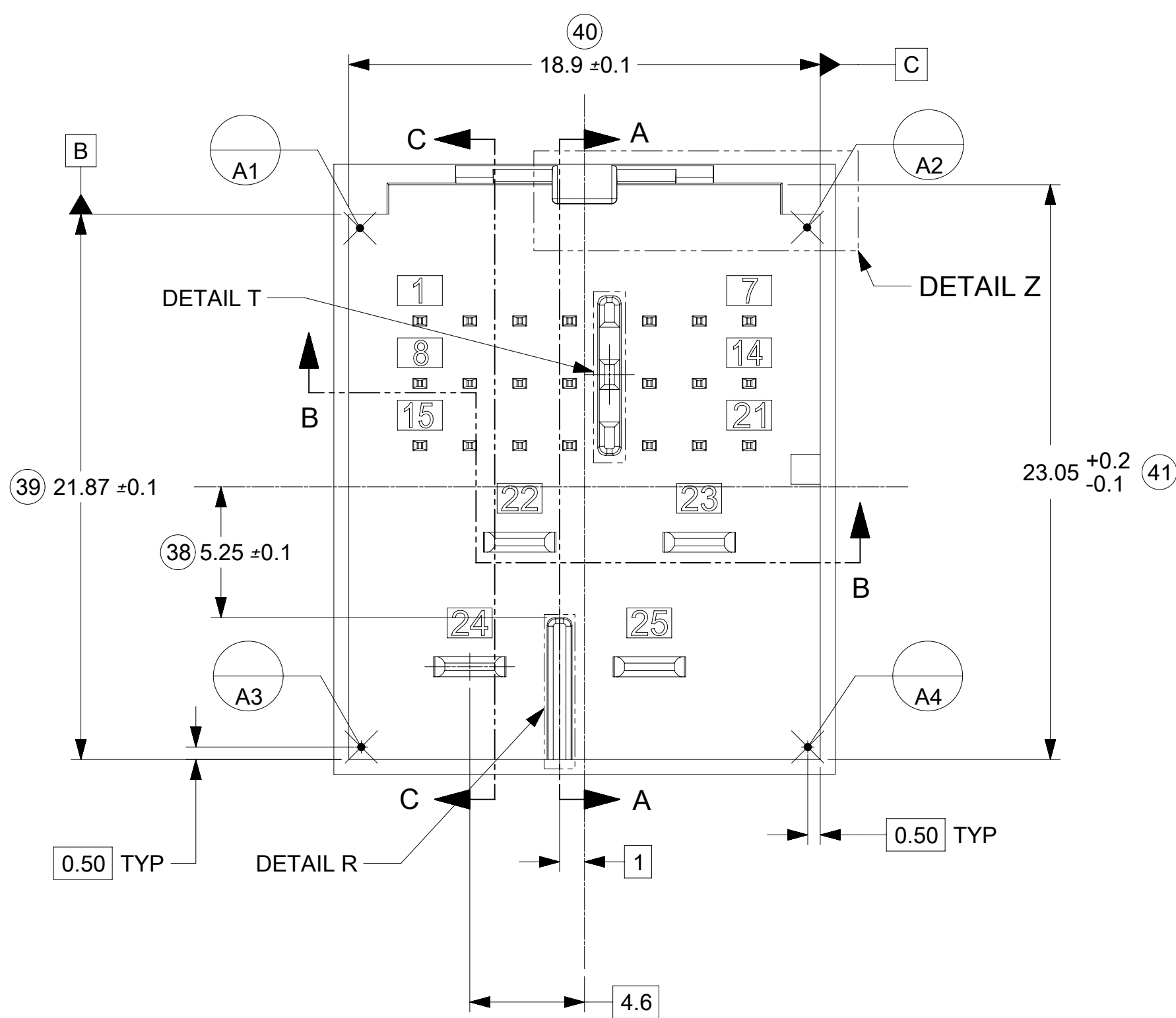
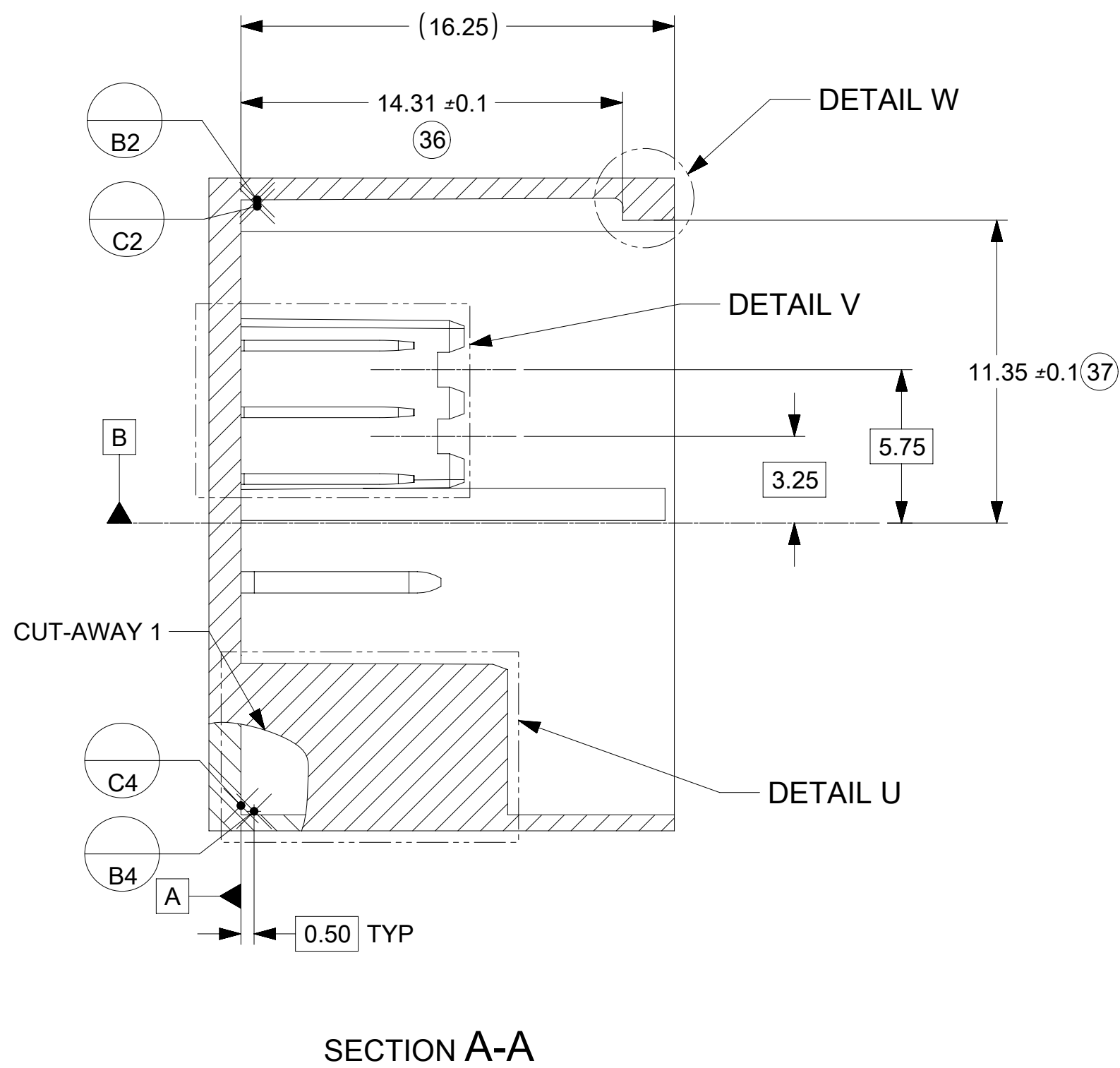
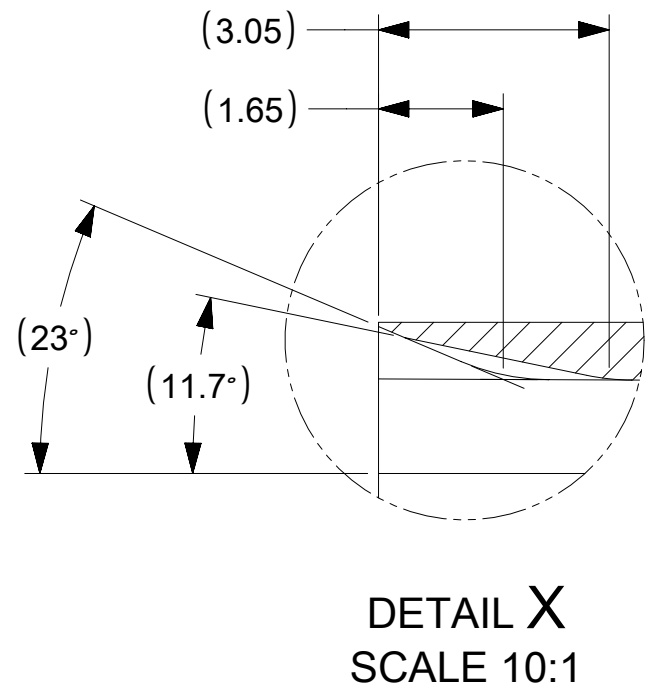
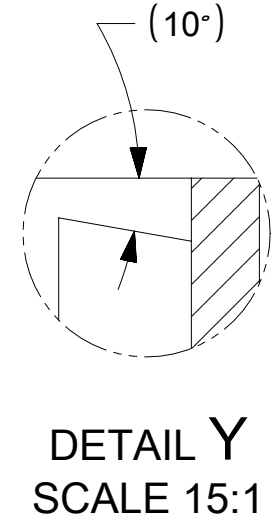
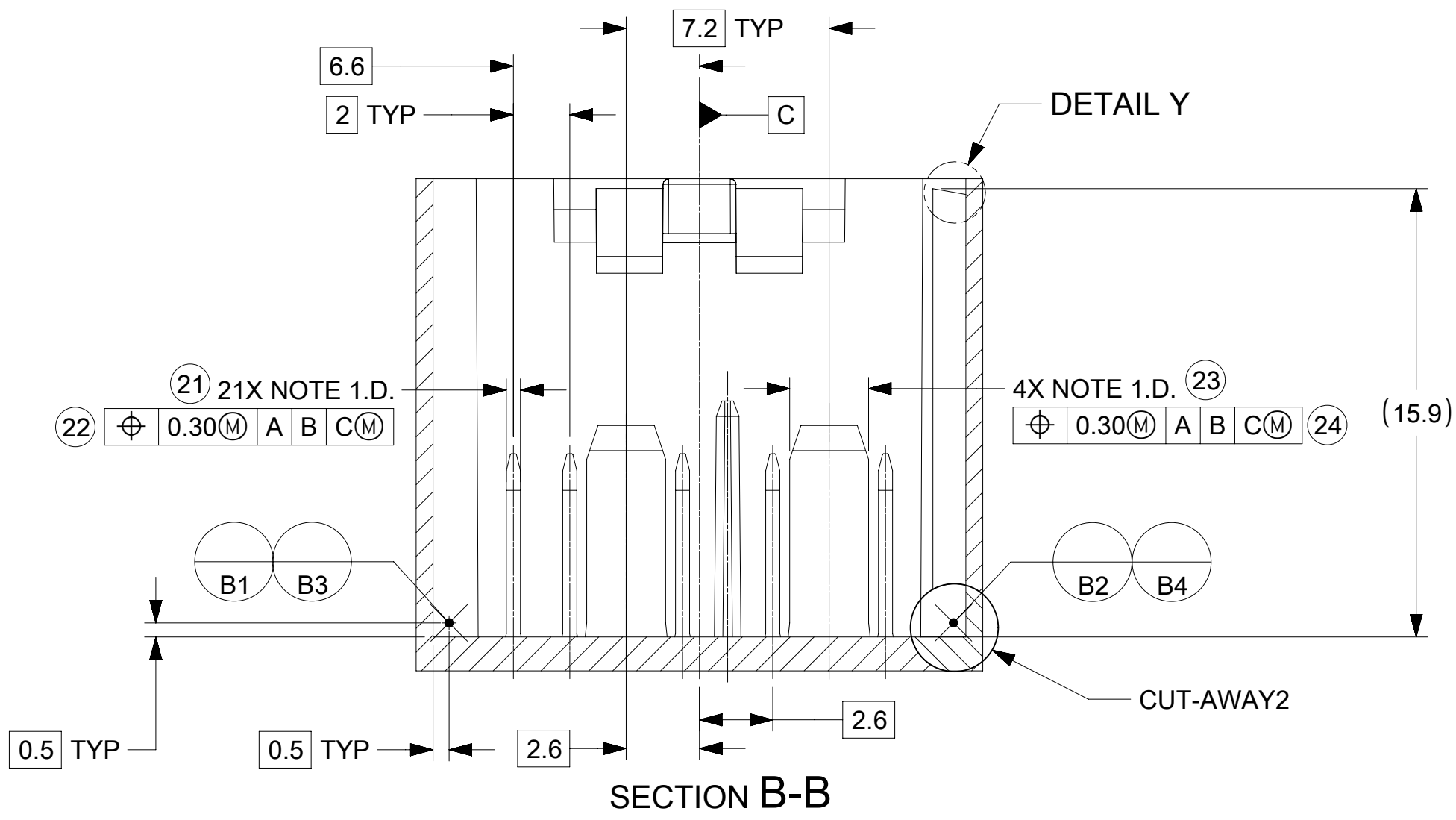
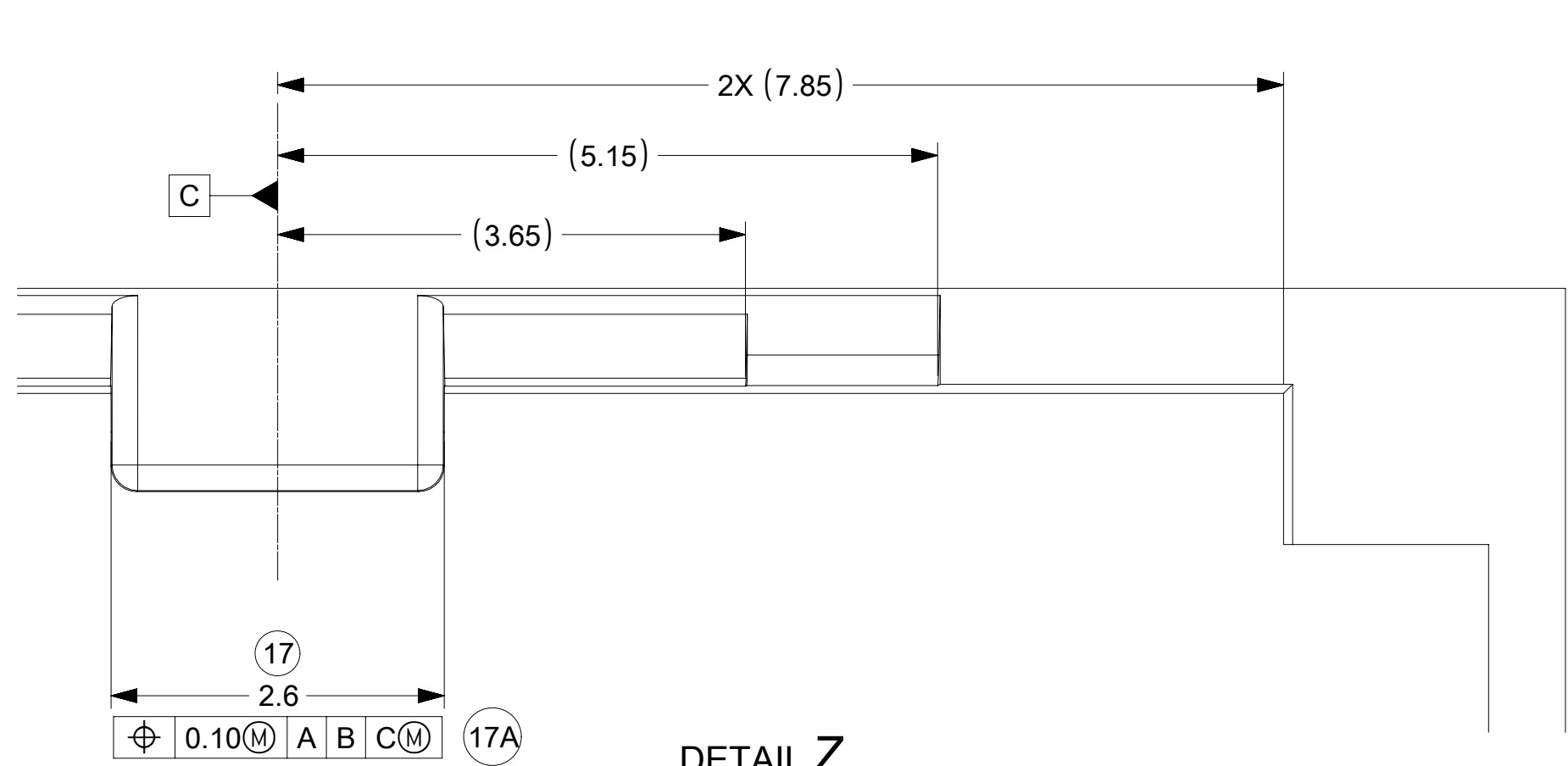
RIB OPTION B



INSPECTION BALLOON NUMBER LOG	
PER DRAWING REVISION:	C1
LAST BALLOON NUMBER:	63
ADDED BALLOON NUMBER:	NONE
DELETED BALLOON NUMBER:	NONE

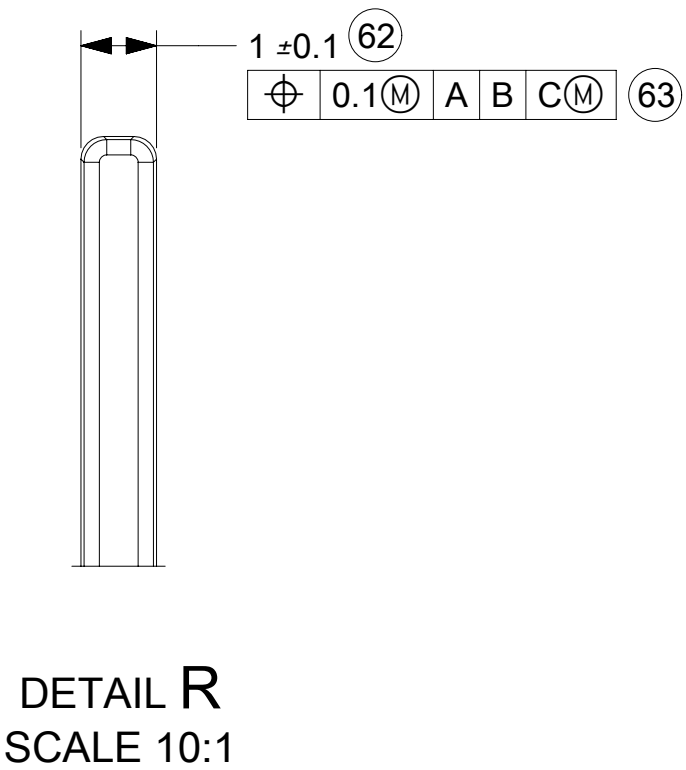
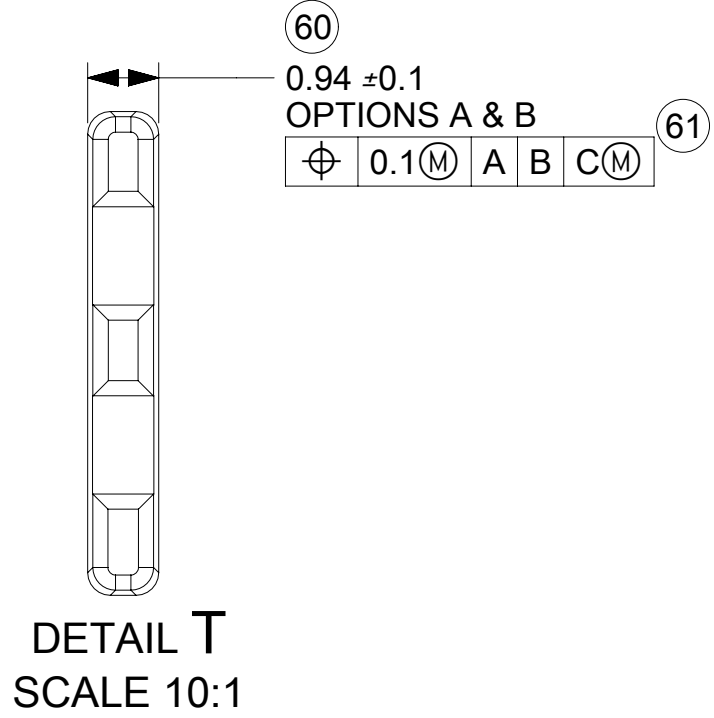
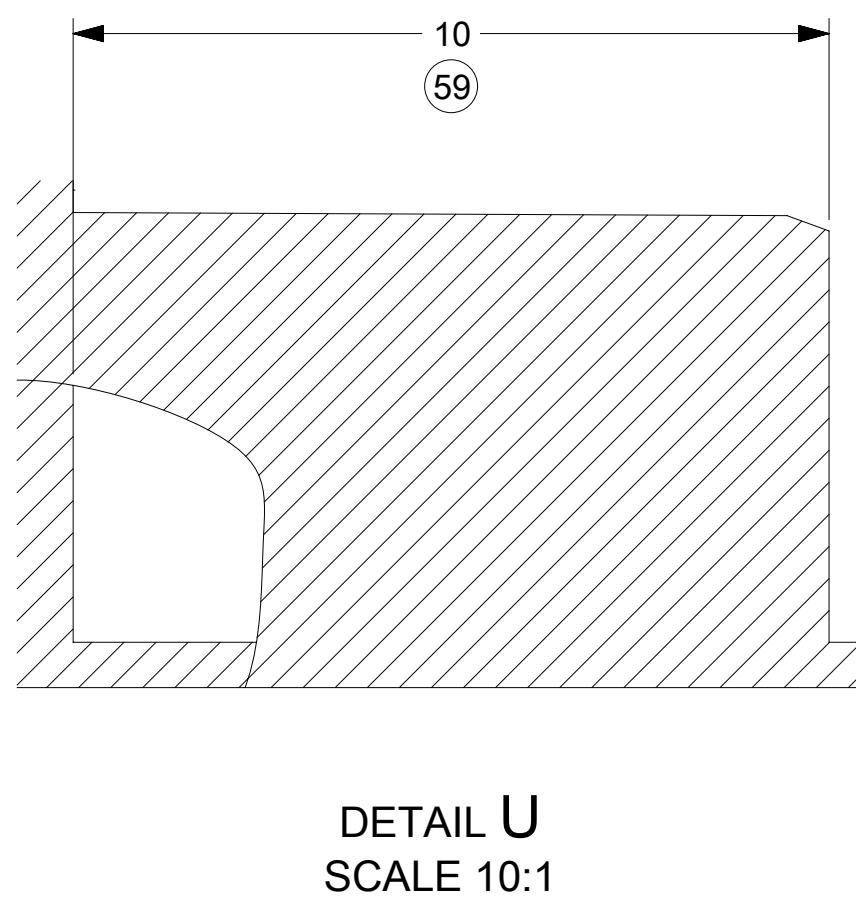
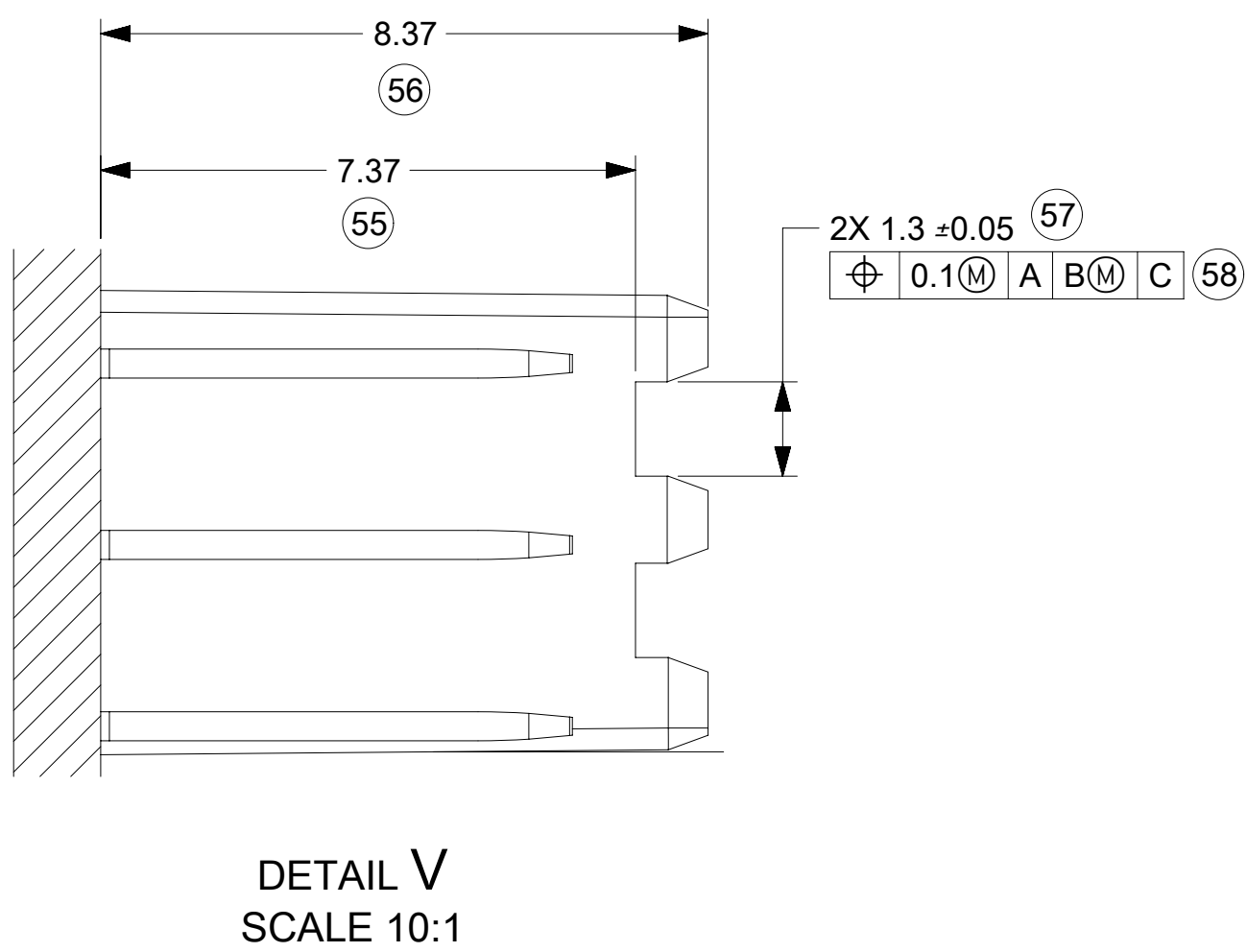
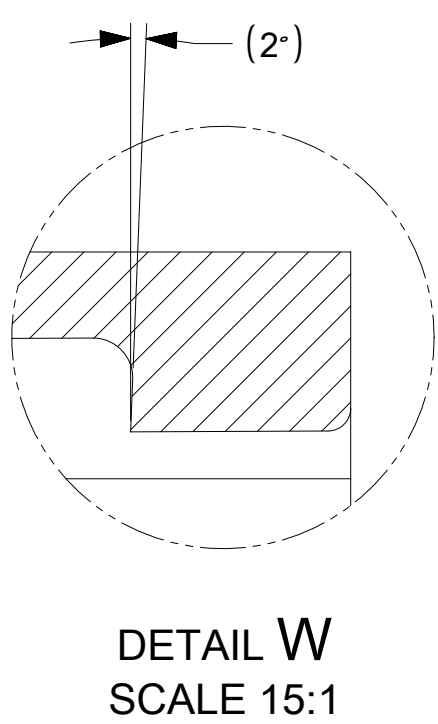
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						
	DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED BASIC DIMENSIONS IN SECTION B-B ON SHEET 2																		
	mm		5:1																				
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 649575 DRWN: YPENG472020/11/19 CHK'D: JRUTTER2020/11/23 APPR: MVANSLAMBROU2020/11/25				25WAY STAK50H INTERFACE DRAWING														
	ANGULAR TOL ± °																						
DIVISIONAL SYMBOLS	4 PLACES		±		INITIAL REVISION: DRWN: SPEMMARAJU2015/11/03 APPR: KDEKOSKI2016/03/24				PRODUCT CUSTOMER DRAWING														
	3 PLACES		±																				
	2 PLACES		±																				
	1 PLACE		±																				
	0 PLACES		±																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
												D-SIZE		160027		SD-160027-002		PSD		000		C1	
														</									

DOCUMENT STATUS	P1	RELEASE DATE	2020/11/25 23:16:39
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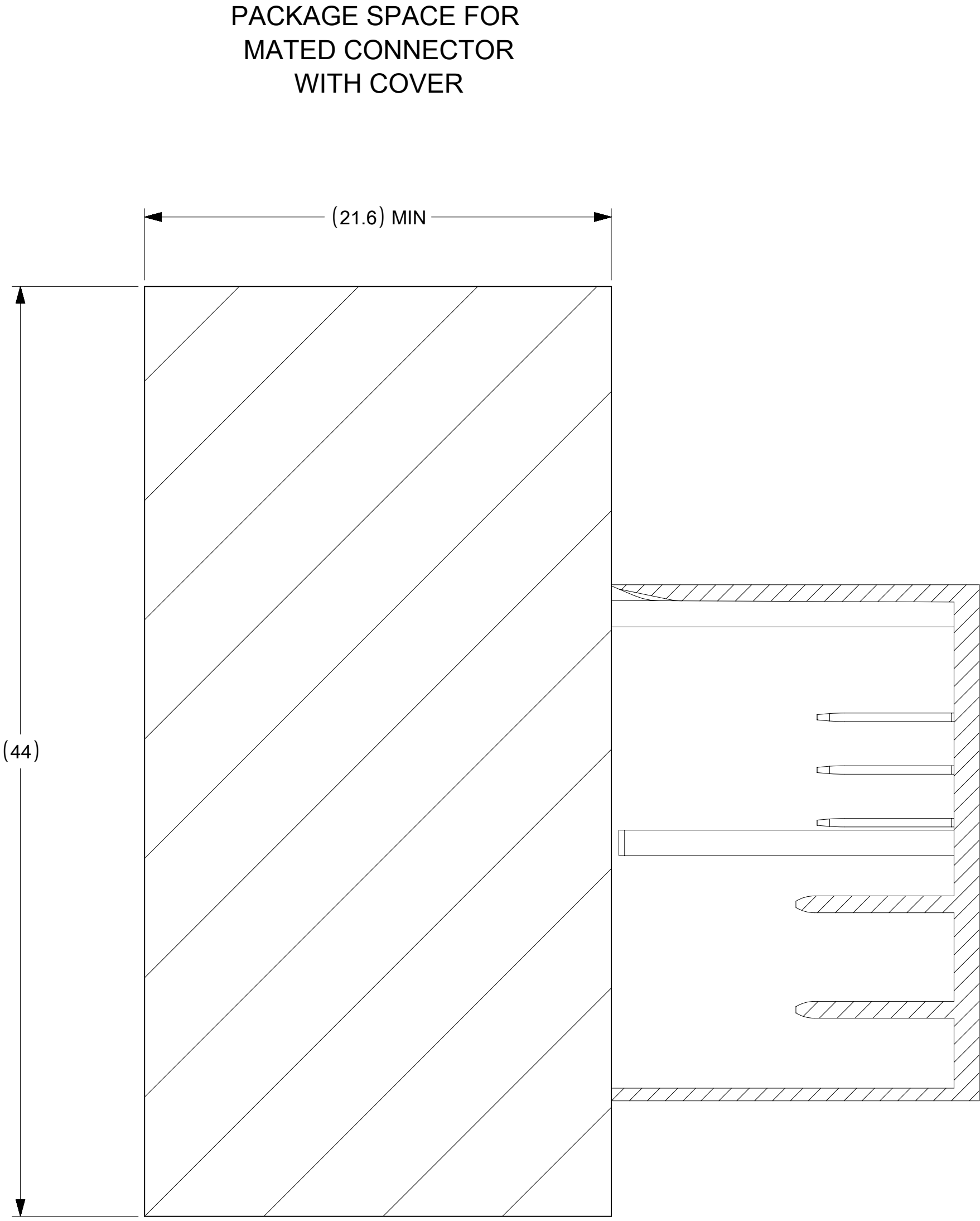
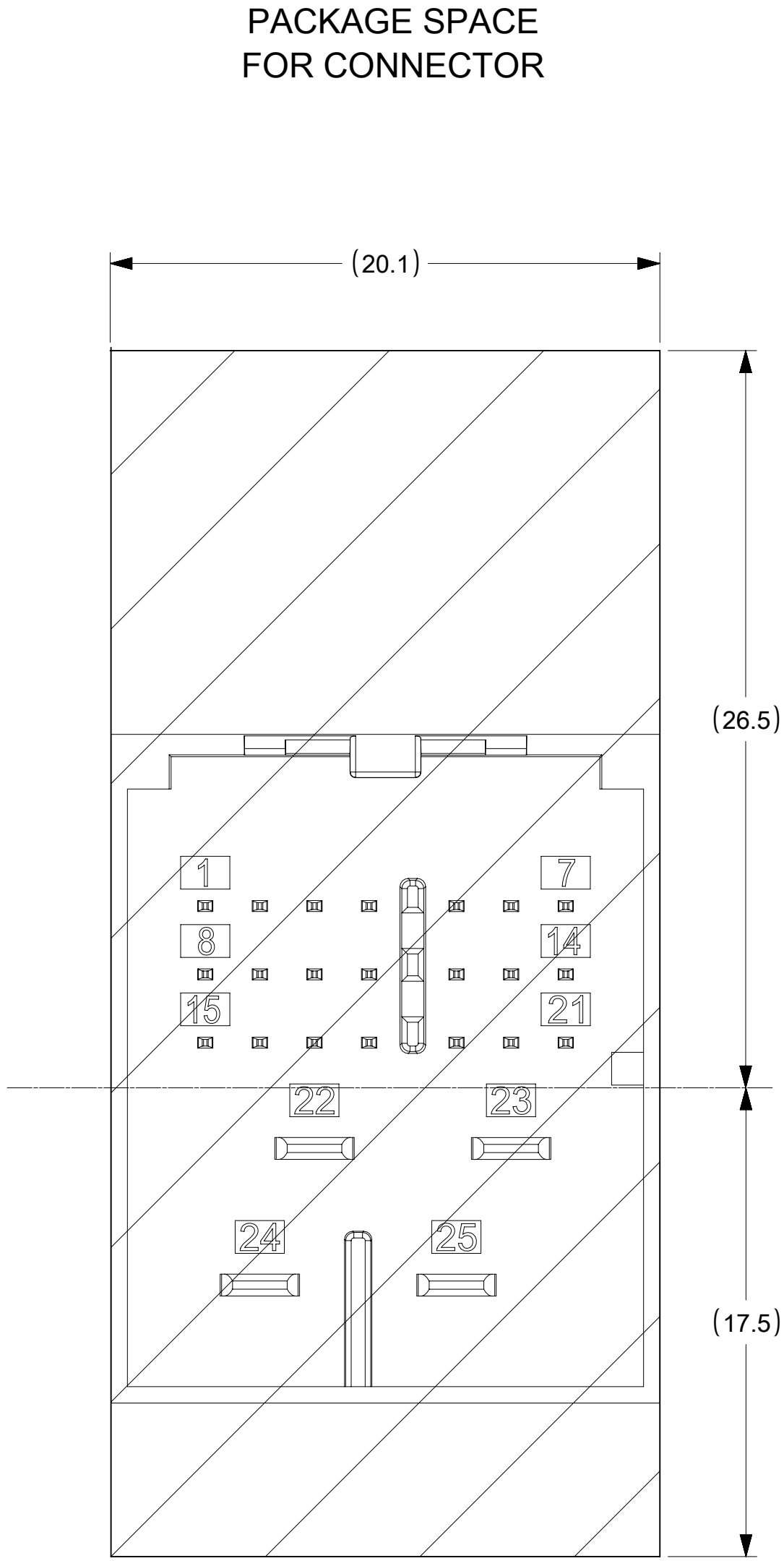
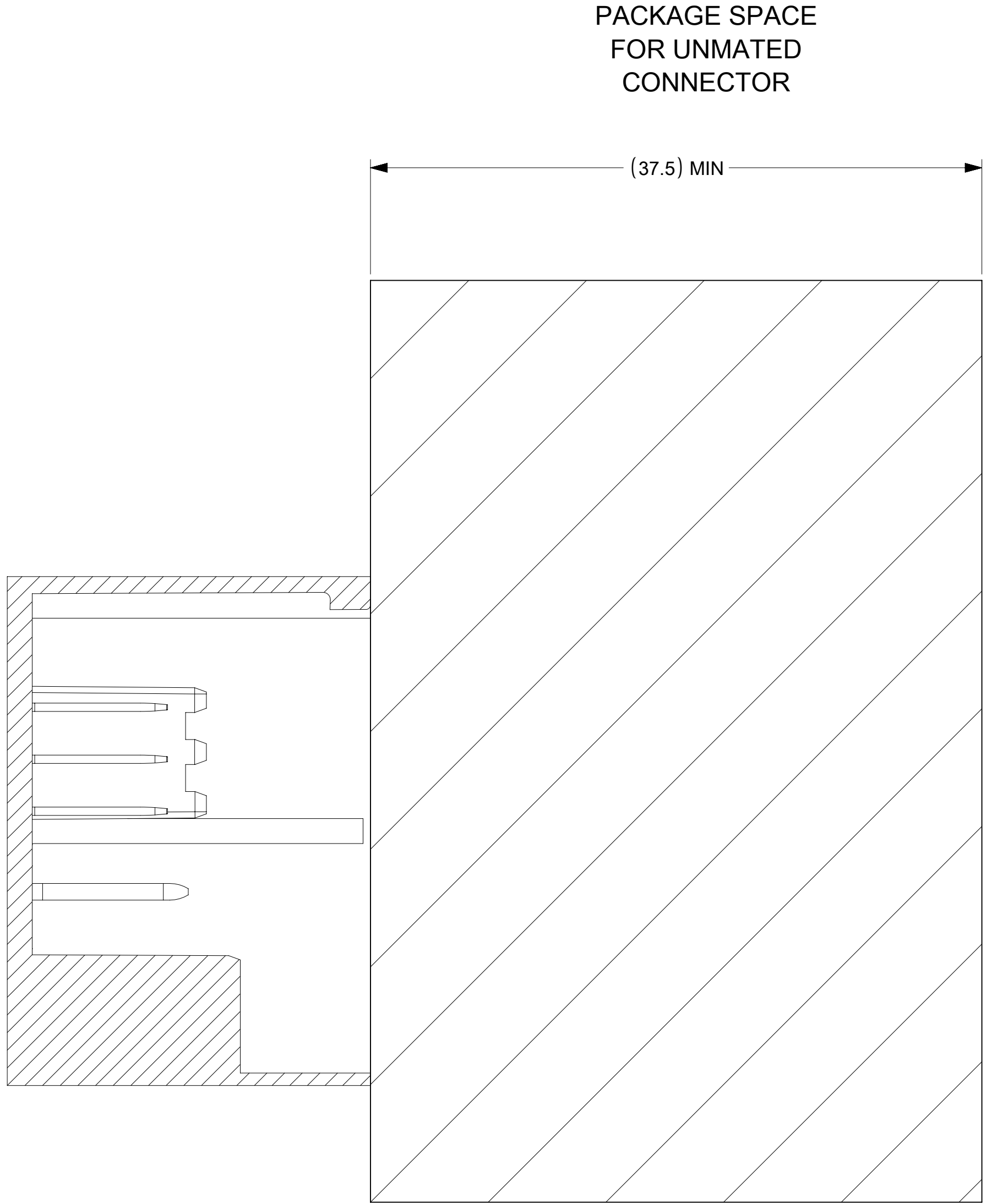


CONSTRUCTION	DIM. A (mm)	STATUS
OPTION A	7.5	REVISION B
OPTION B	6.5	REVISION C

*OPTION B IS THE PREFERRED CONSTRUCTION FOR ALL NEW HEADERS



FUNCTIONAL SYMBOLS FA = 0 FE = 0 FP = 0 DIVISIONAL 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: UPDATED BASIC DIMENSIONS IN SECTION B-B ON SHEET 2			molex							
	mm		5:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 649575 DRWN: YPENG47 CHK'D: JRUTTER APPR: MVANSLAMBROU			25WAY STAK50H INTERFACE DRAWING							
	ANGULAR TOL ± °														
	4 PLACES		±		2020/11/19										
	3 PLACES		±		2020/11/23										
	2 PLACES		±		2020/11/25										
	1 PLACE		±		INITIAL REVISION: DRWN: SPEMMARAJU APPR: KDEKOSKI										
	0 PLACES		±					2015/11/03 2016/03/24							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		160027				GENERAL MARKET		2 OF 3	



FUNCTIONAL SYMBOLS DIVISIONAL 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: UPDATED BASIC DIMENSIONS IN SECTION B-B ON SHEET 2			molex 25WAY STAK50H INTERFACE DRAWING							
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
	ANGULAR TOL ± °				EC NO: 649575 DRWN: YPENG47 2020/11/19 CHK'D: JRUTTER 2020/11/23 APPR: MVANSLAMBROU 2020/11/25			PRODUCT CUSTOMER DRAWING							
	4 PLACES														
	3 PLACES														
	2 PLACES		±		INITIAL REVISION: DRWN: SPEMMARAJU 2015/11/03 APPR: KDEKOSKI 2016/03/24			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
	1 PLACE		±					SD-160027-002		PSD	000	C1			
	0 PLACES		±												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		160027				GENERAL MARKET		3 OF 3	