

产品编号 : 1600270015

Product Description : stAK50h Hybrid
 Receptacle, 25 Circuits, Key 5, Rib Option
 B, Dark Purple, Bag

系列号 : 160027

状态 : Active

Product Category : Connector Housings



文件和资源

图纸

图纸 [1600270015_sd.pdf](#)

3D 模型和设计文件

3D模型 [1600270015_stp.zip](#)

规格

应用规格 [AS-160014-001-001.pdf](#)

测试摘要 [1600140000-TS-000.pdf](#)

产物环境合规

合规

GADSL/IMDS	Duty-To-Declare
China RoHS	
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

多部分产品合规性声明

- Eu RoHS
- REACH SVHC
- Low-Halogen

多部分行业合规性文件

- IPC 1752A Class C
- IPC 1752A Class D

- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

欧盟 RoHS 合格证书

产品详情

常规

状态	活动
类别	Connector Housings
系列	160027
说明	stAK50h Hybrid Receptacle, 25 Circuits, Key 5, Rib Option B, Dark Purple, Bag
应用	Automotive, Power, Signal, Wire-to-Board
产品系列	stAK50h Connection System
产品名称	stAK50h
UPC	193264073535

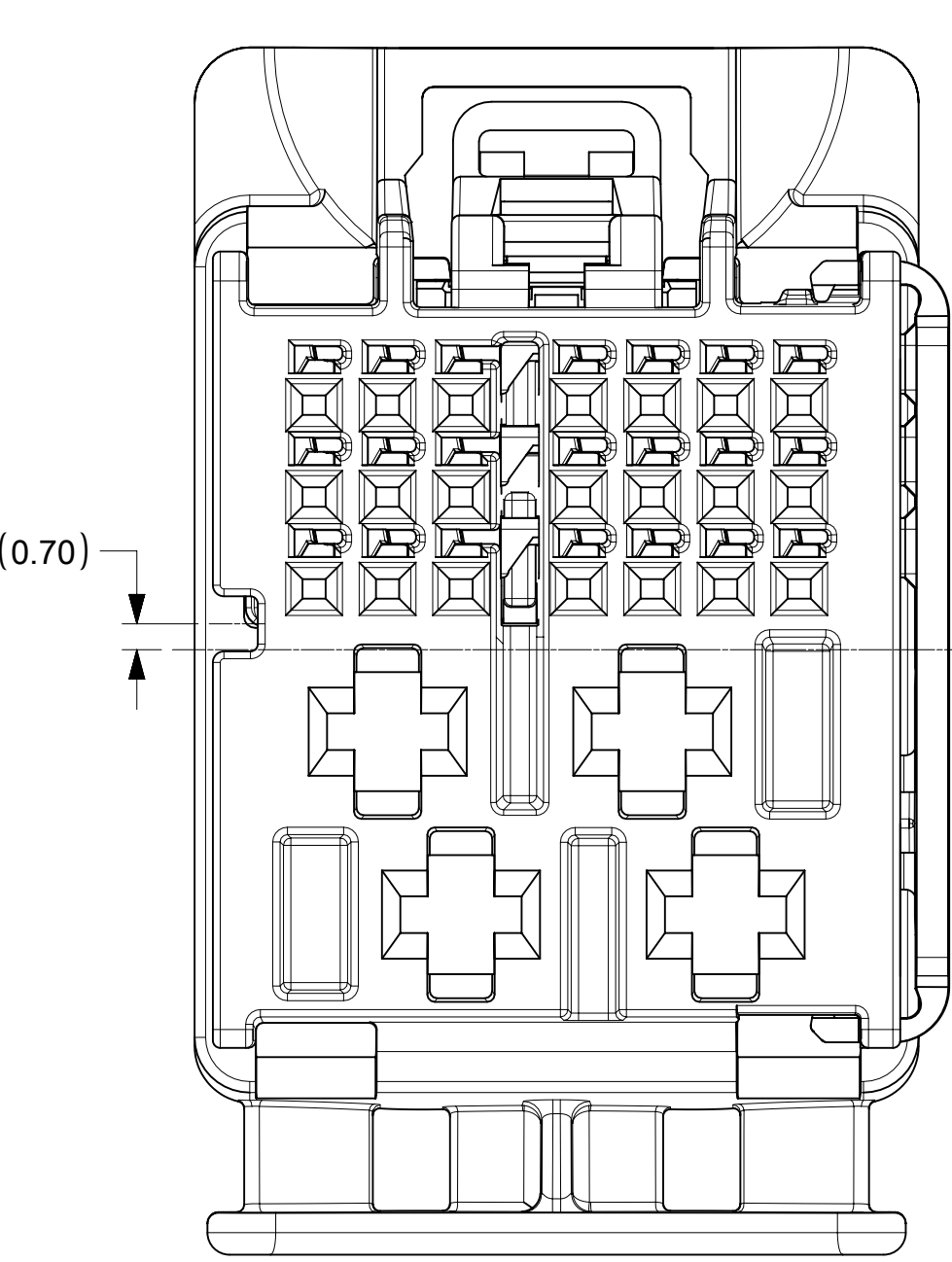
物理

电路数（最多）	25
颜色-树脂	Purple (Dark)
性别	Receptacle
符合灼热丝规范	否
插接极性	是
锁定插接部位	是
材料 - 树脂	SPS
净重	5.774/g
行数	5
包装形式	Bag
面板安装式	否
间距 - 插配接口	2.00mm, 3.20mm, 7.20mm
间距 - 终端界面	2.00mm, 3.20mm, 7.20mm
有极性的插配件	是
端口	1
可堆叠的	否

运行温度范围	-40° to +105° C LV-214, -40° to +85° C GMW3191 June2012
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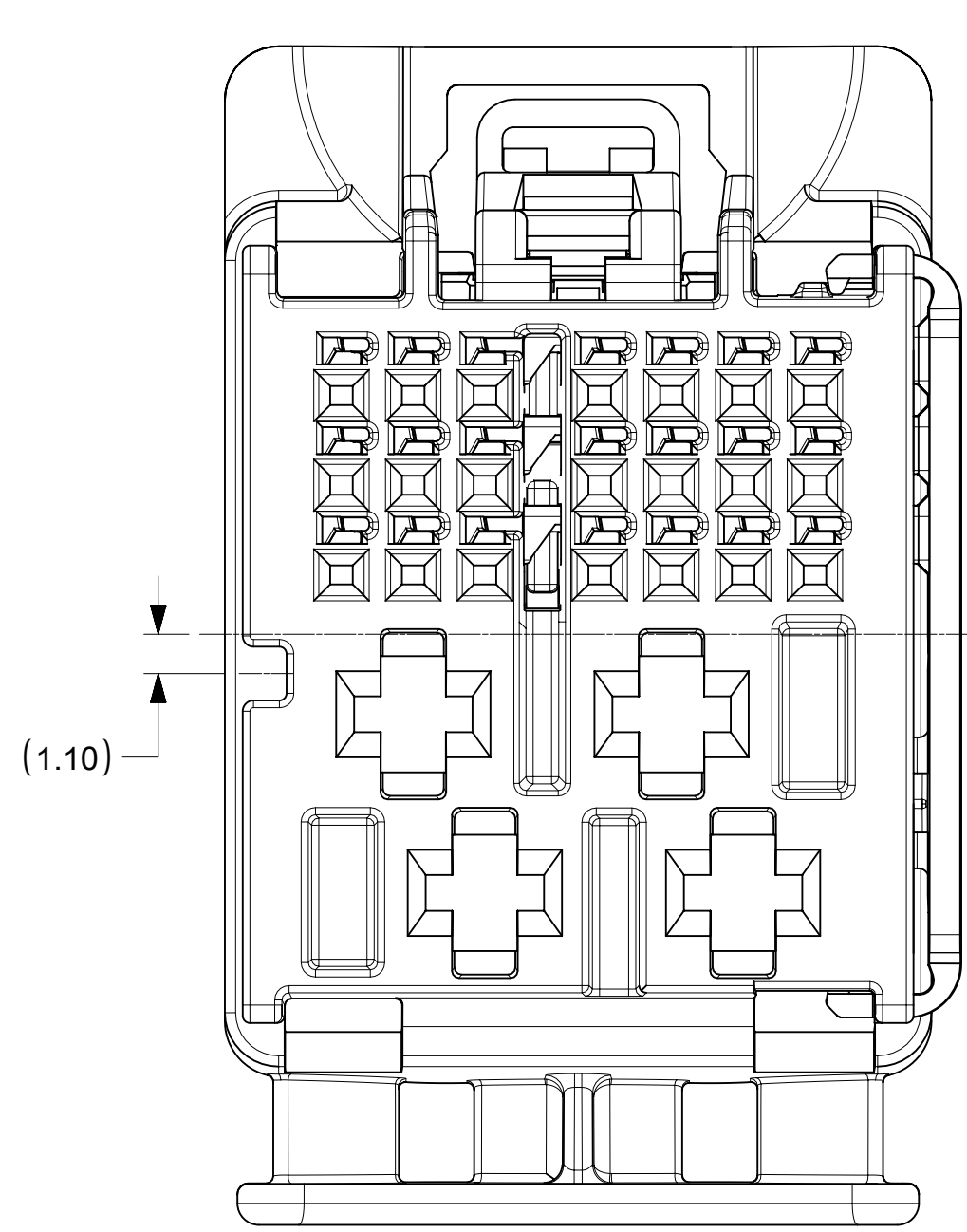
可连接使用部件

描述	产品编号
TAK50 Unsealed Receptacle Terminals	<u>200096</u>
可装的端子等部件	TE AMP MPC 2.80mm Terminal or Aptiv CTS 2.80mm Terminal

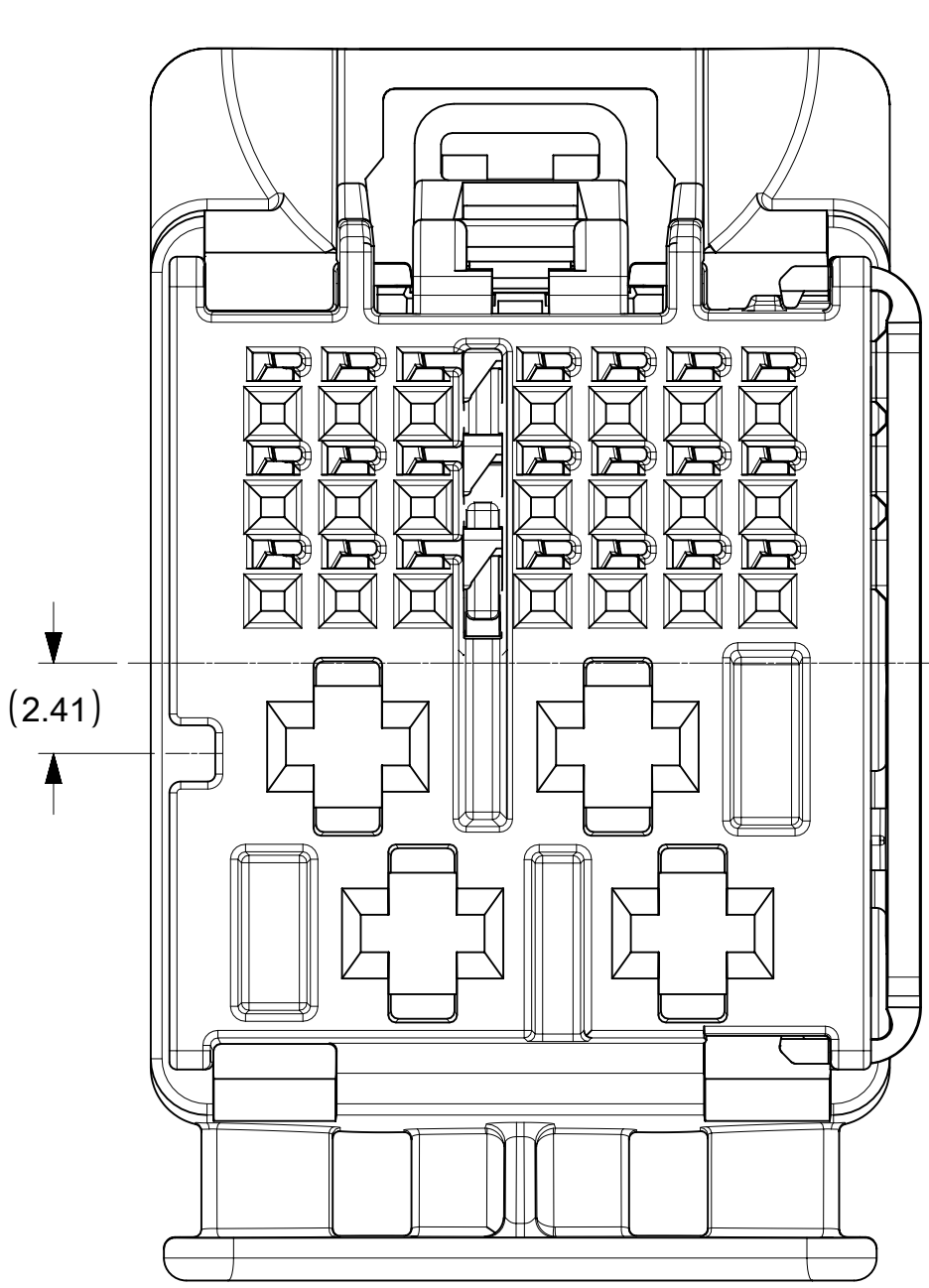


25 WAY CONNECTOR ASSEMBLY
KEY 1 & KEY 5

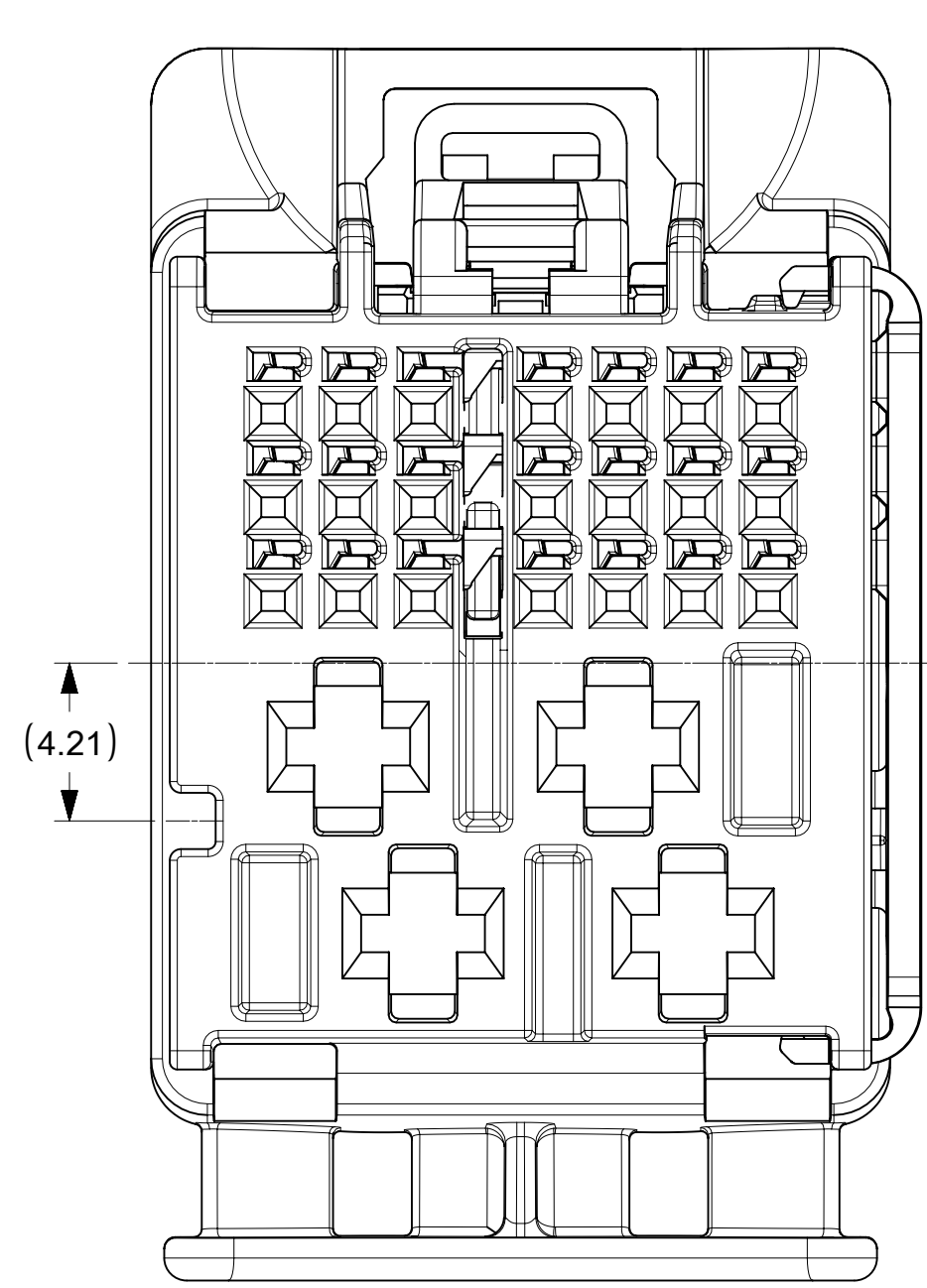
PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-3101	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-3201	TIN PLATING	MOLEX	0.13	TAK FAMILY (0.5 mm)	
2272196-2	TIN PLATING	TE	0.35	Generation 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	GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL)
1-968849-1	TIN PLATING	TE	0.5 - 1.0	AMP MCP 2.8	
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:
- 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)

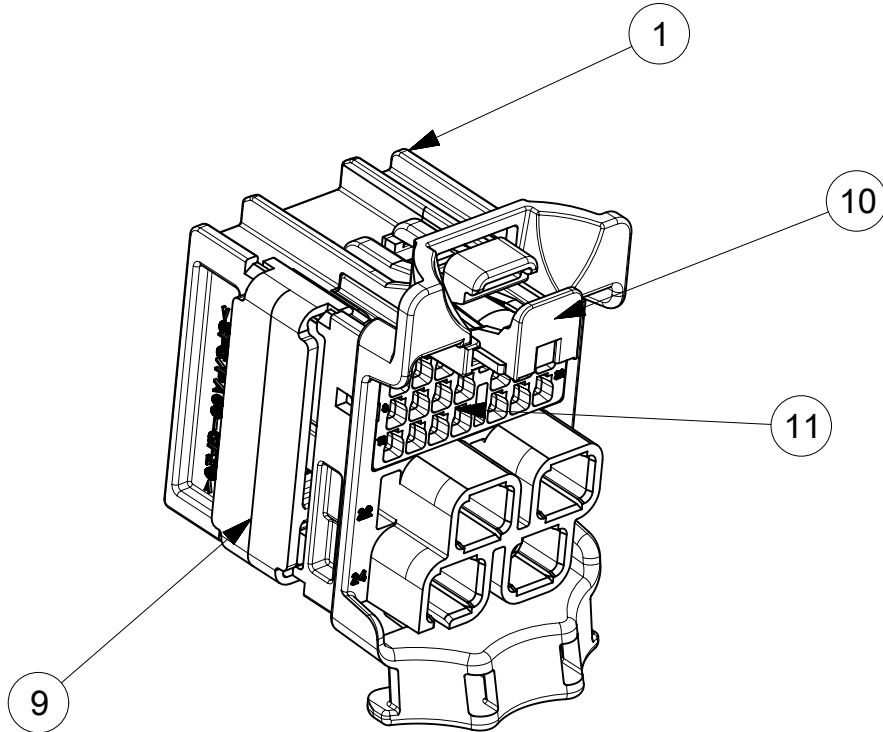
2. DESIGN - MATERIALS:
- a. SEE BOM TABLE

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

4. DESIGN - MANUFACTURING:
- a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

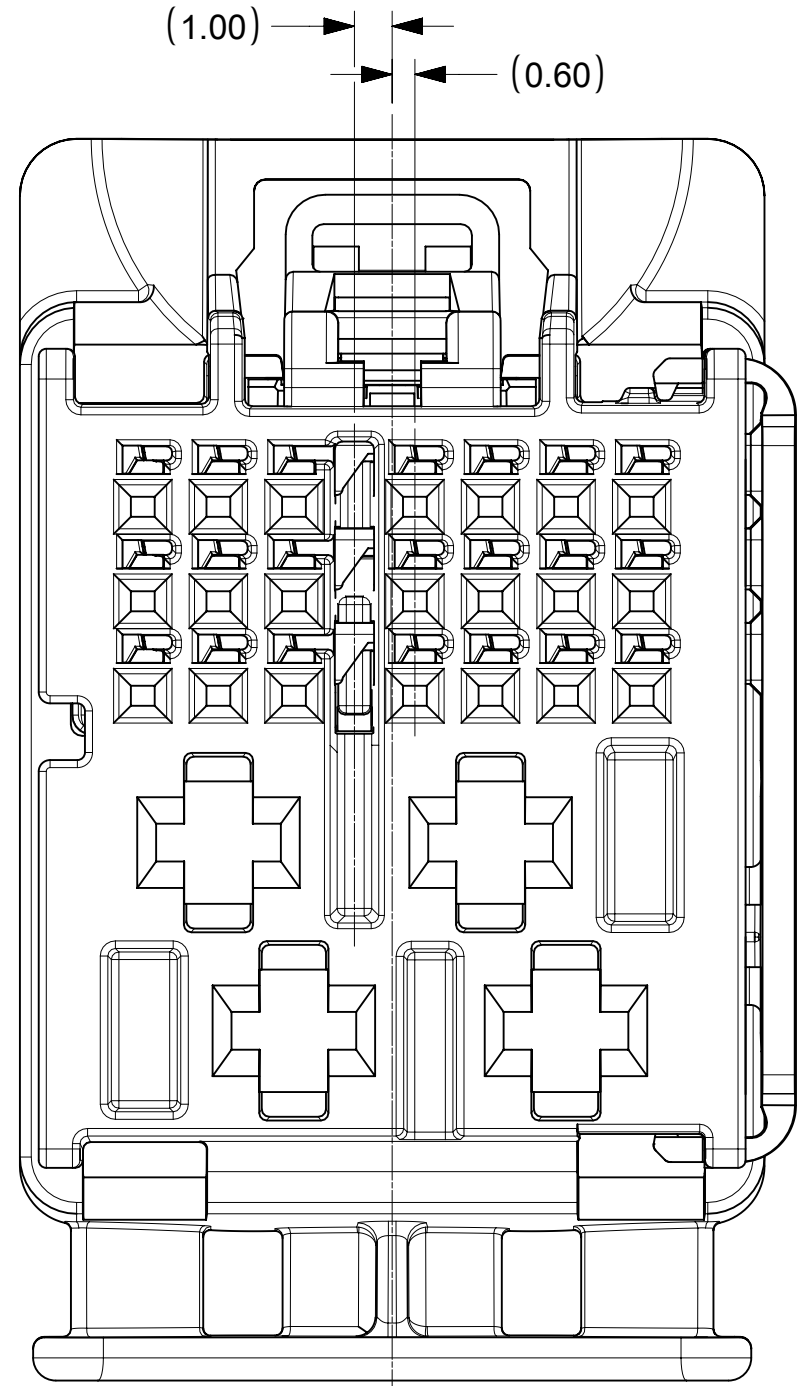
ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	RIB OPTION	NO OF ITEMS REQUIRED									
1	OUTER SHROUD - KEY 1	LIGHT GREEN B	SPS/PA66-GF20	4.1	A	1									
2	OUTER SHROUD - KEY 2	STONE GRAY	SPS/PA66-GF20	4.1	A		1								
3	OUTER SHROUD - KEY 3	BLACK	SPS/PA66-GF20	4.1	A			1							
4	OUTER SHROUD - 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	1	1
10	CPA	NATURAL	PA66-GF50	0.08	N/A	1	1	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		

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

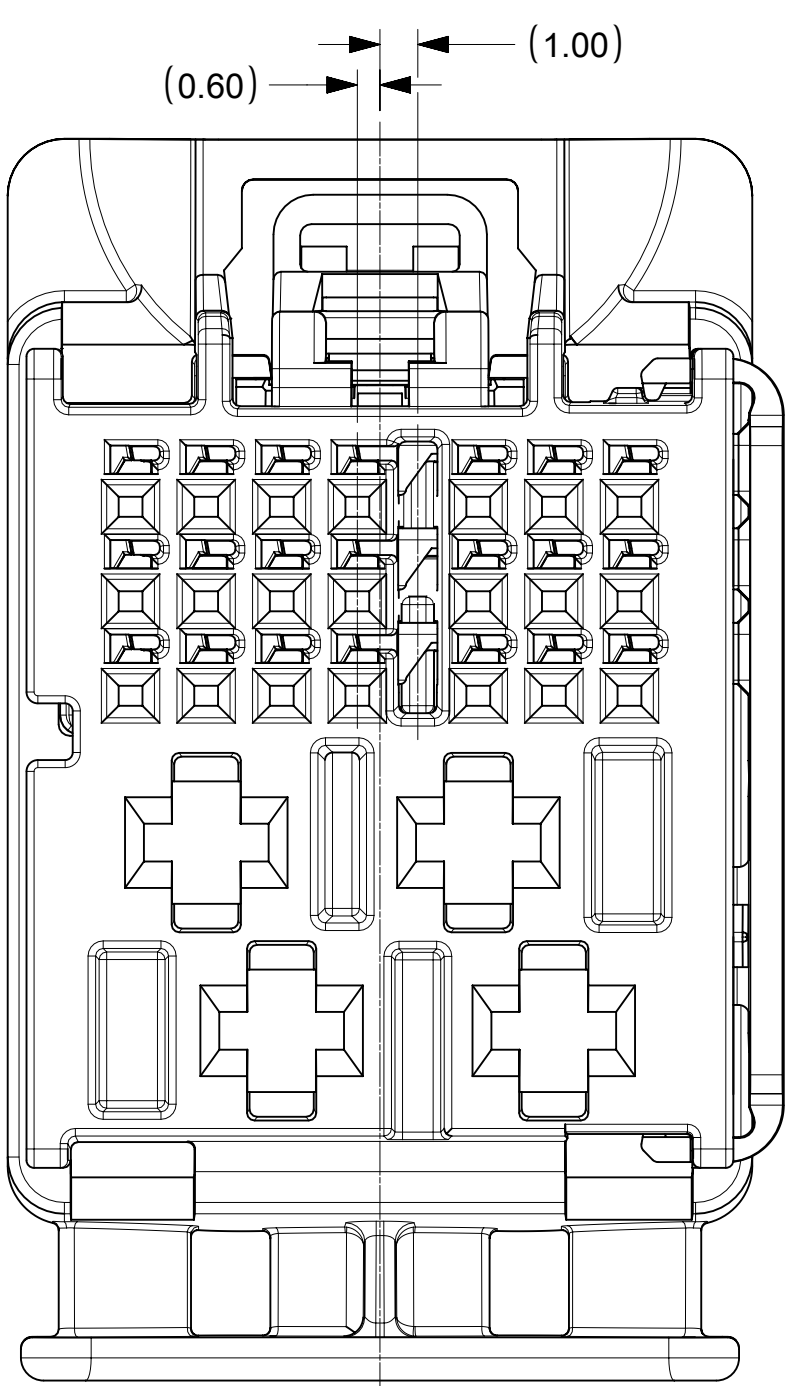


SCALE 2:1

RIB OPTION A

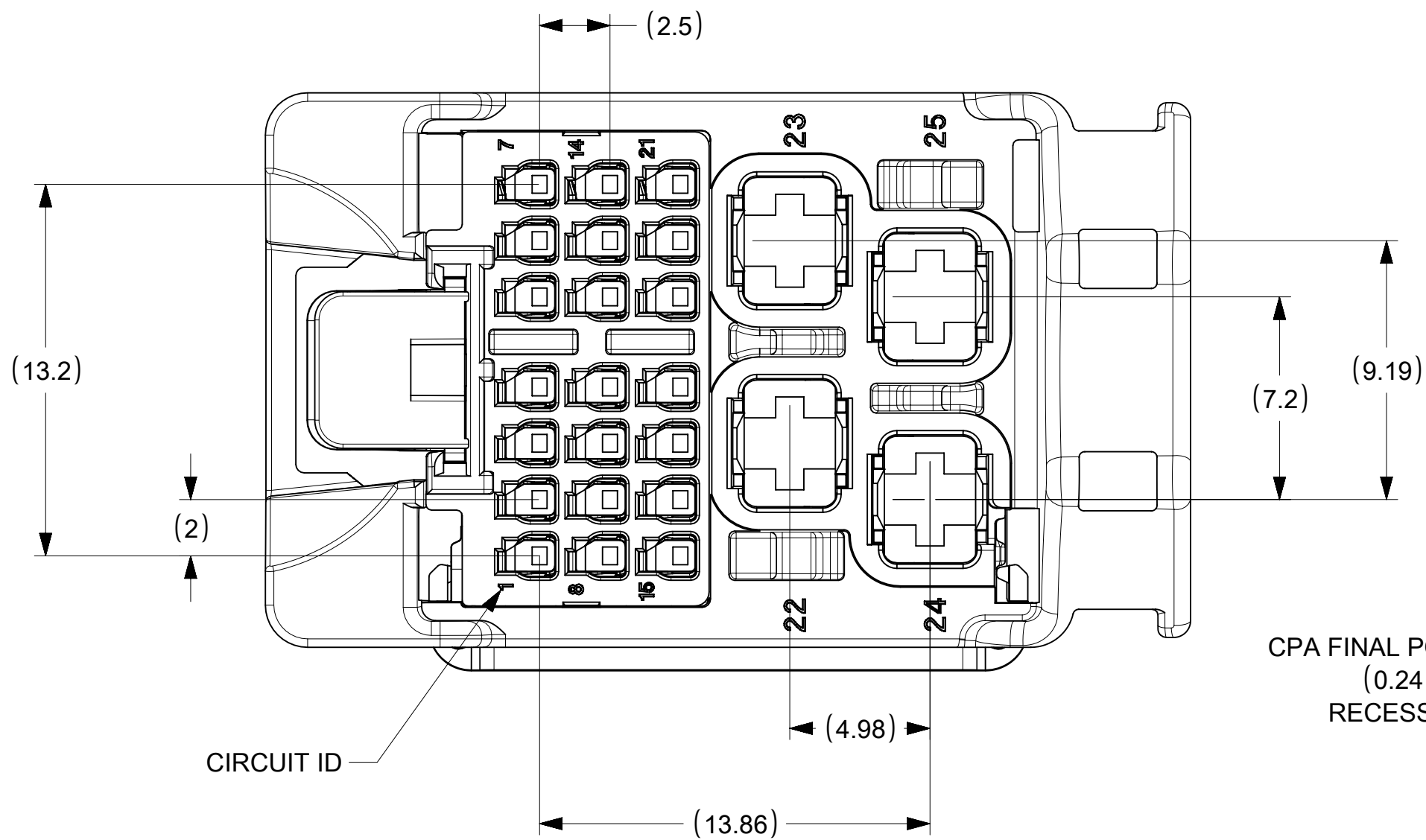
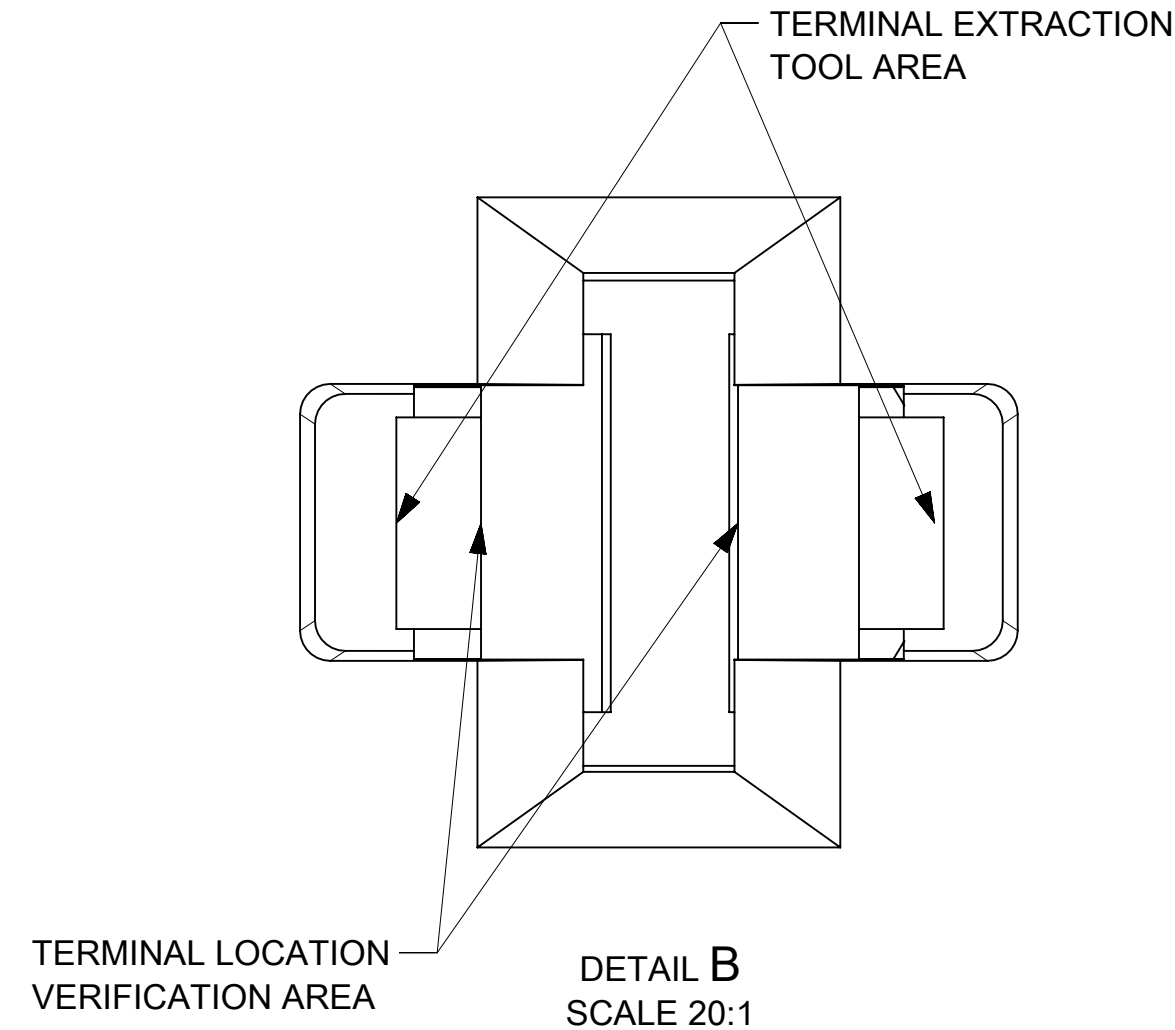
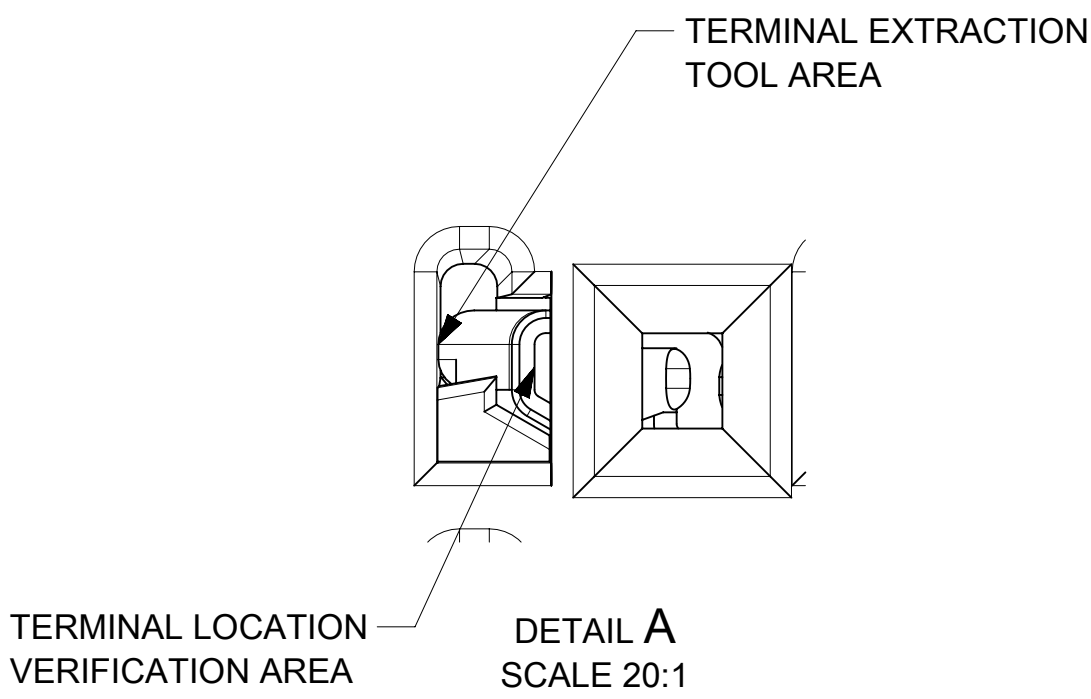


RIB OPTION B



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

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 TAK50				molex				
= 0	mm		5:1	TERMINAL PNS								
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 648438				25WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY				
= 0	ANGULAR TOL ± 3.0°											
= 0	4 PLACES		±	DRWN: YPENG47 2021/07/21				PRODUCT CUSTOMER DRAWING				
= 0	3 PLACES		±	CHK'D: RCARLSON 2021/07/29								
= 0	2 PLACES		± 0.3	APPR: JCONDON 2021/08/02				DOCUMENT NUMBER 1600270011				
= 0	1 PLACE		± 0.3	INITIAL REVISION:								
= 0	0 PLACES		± 0.3	DRWN: RCARLSON 2019/02/18				DOC TYPE		DOC PART	REVISION	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
= 0						D-SIZE	160027	SEE CHART		GENERAL MARKET		1 OF 2
= 0												



Ø(39.16) PASS THROUGH
CLEARANCE 1MM PER SIDE

SEE DETAIL A

SEE DETAIL B

LASER ETCH
DATE CODE

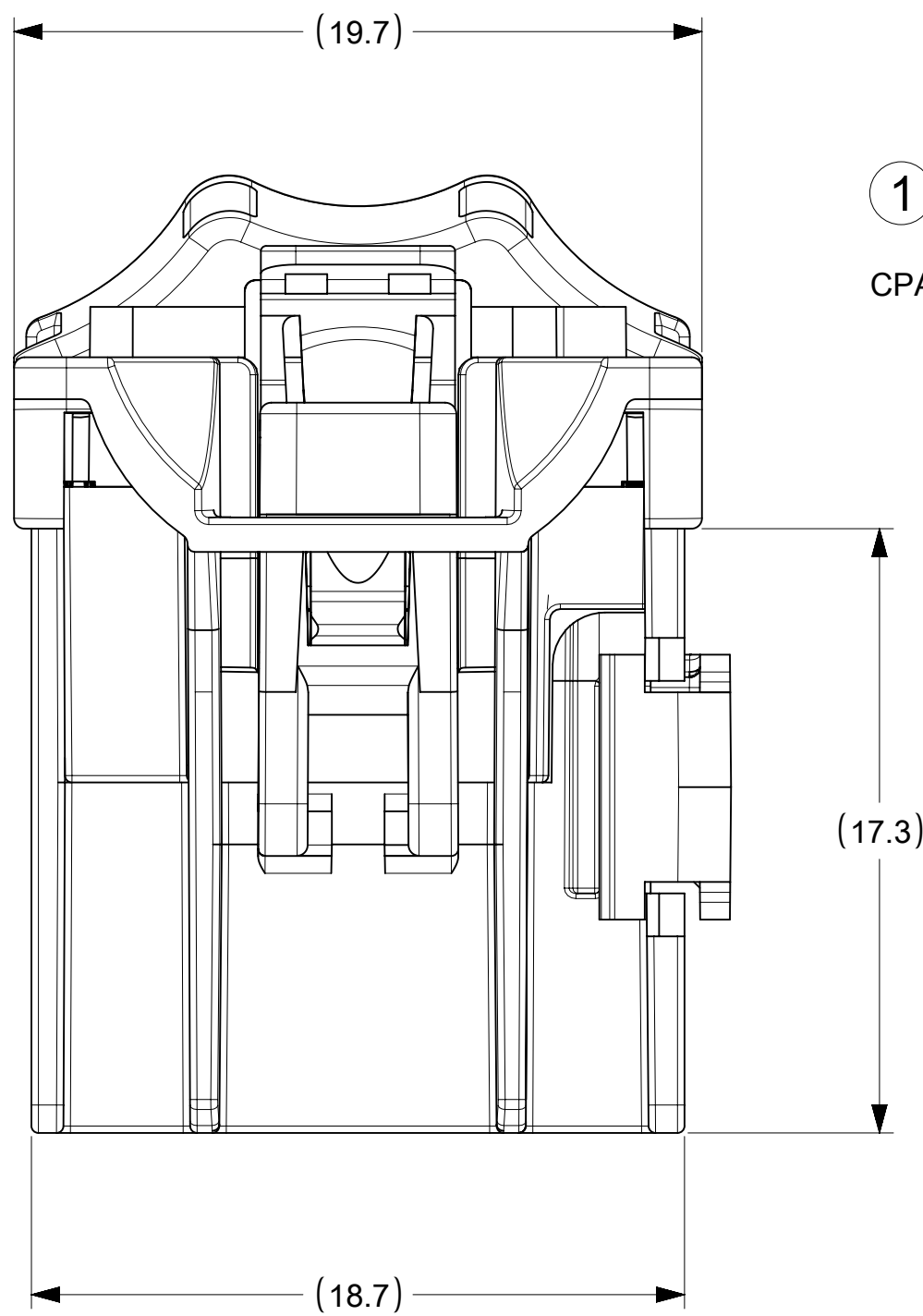
YYDDD
HHMMSS

②
1.30 ±0.30
ISL IN OPEN
POSITION

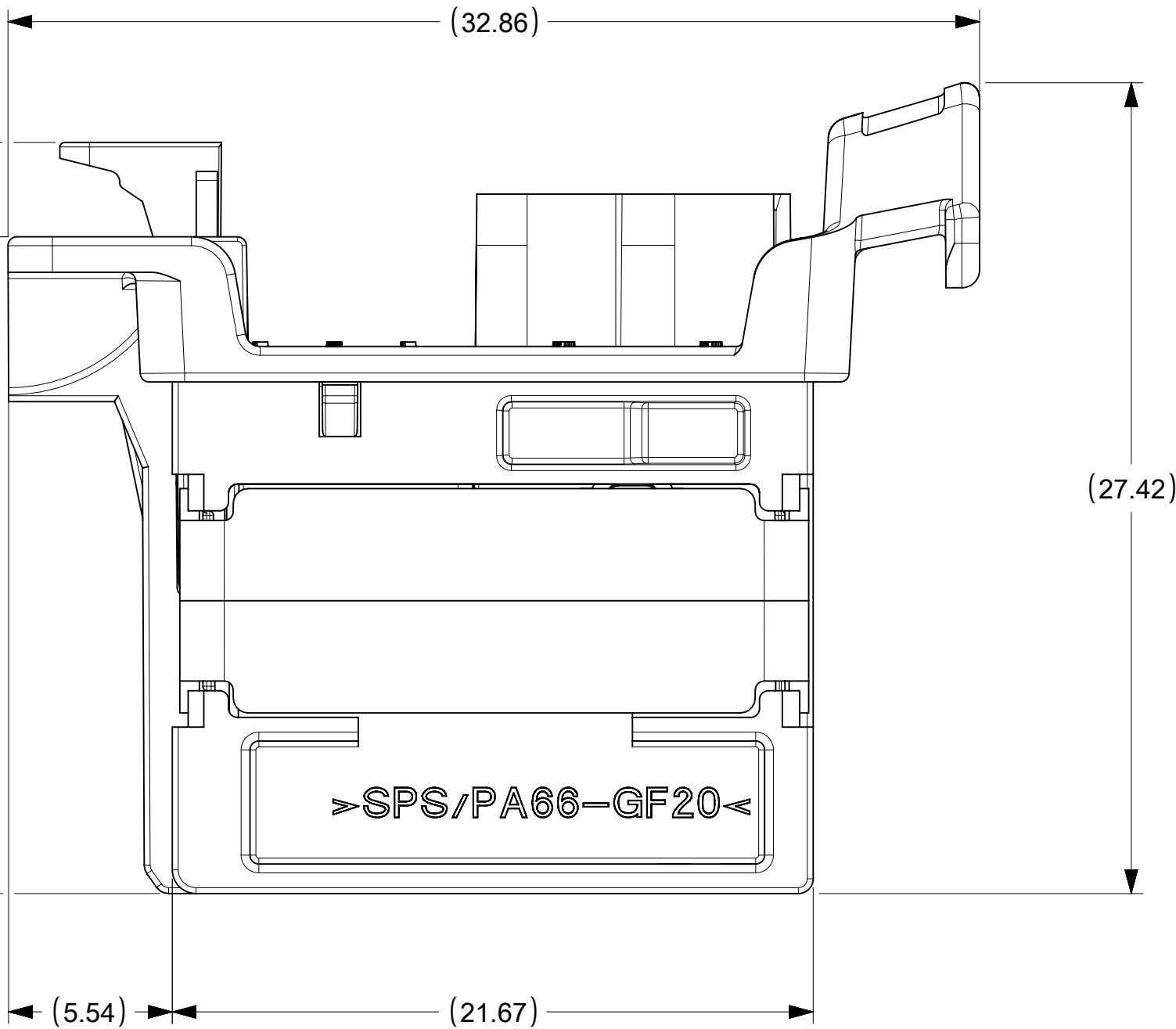
CPA FINAL POSITION
(0.24)
RECESSED

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

ISL IN CLOSED
POSITION



①
CPA PRELOAD POSITION
3.2 ±0.3



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: UPDATED TAK50				molex 25WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY			
= 0		mm		5:1		TERMINAL PNS					
= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)									
= 0		ANGULAR TOL ± 3.0°									
= 0		4 PLACES		±		EC NO: 648438		PRODUCT CUSTOMER DRAWING			
= 0		3 PLACES		±		DRWN: YPENG47 2021/07/21					
= 0		2 PLACES		± 0.3		CHK'D: RCARLSON 2021/07/29					
= 0		1 PLACE		± 0.3		APPR: JCONDON 2021/08/02		DOCUMENT NUMBER 1600270011			
= 0		0 PLACES		± 0.3		INITIAL REVISION:					
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING D-SIZE		DOC PART 000		REVISION A3	
= 0		SERIES 160027		MATERIAL NUMBER SEE SHEET 1		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 2			

molex

25WAY STAK50H HYBRID ASSEMBLY
CONNECTOR ASSEMBLY

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER DOC TYPE DOC PART REVISION

1600270011

PSD

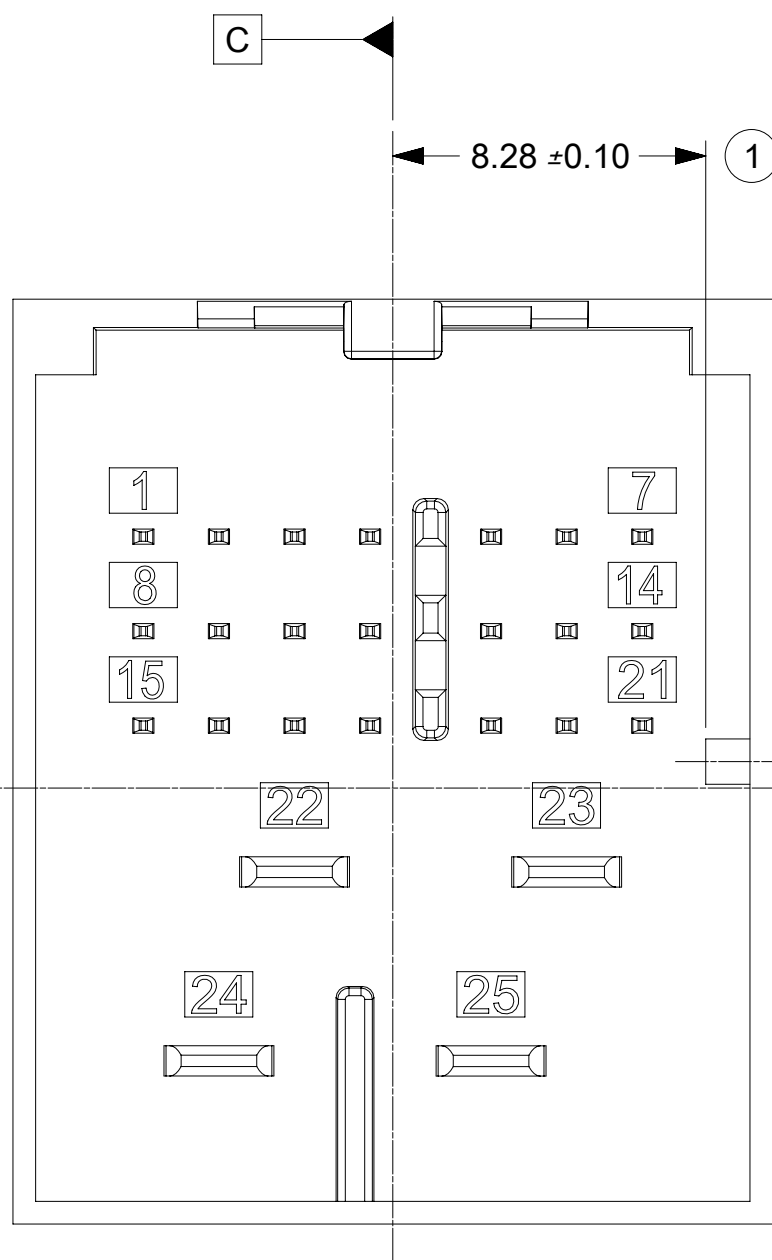
000 A3

MATERIAL NUMBER CUSTOMER SHEET NUMBER

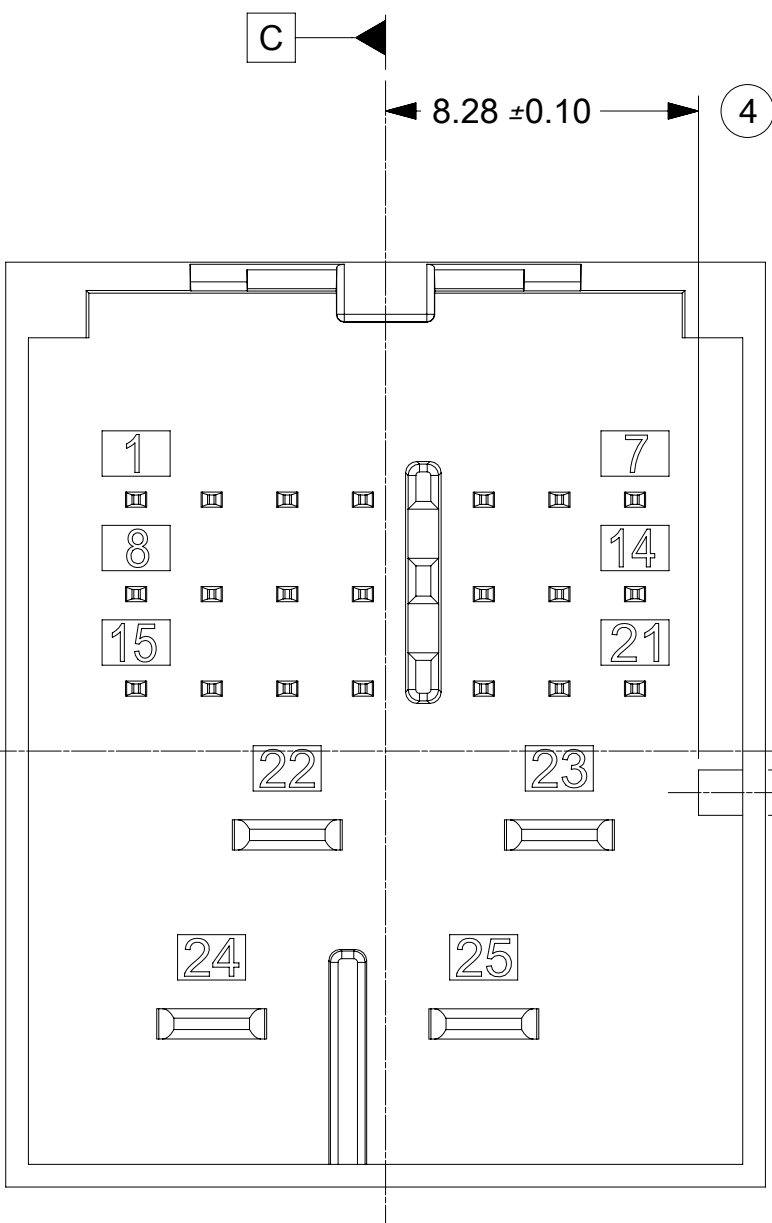
SEE SHEET 1

GENERAL MARKET

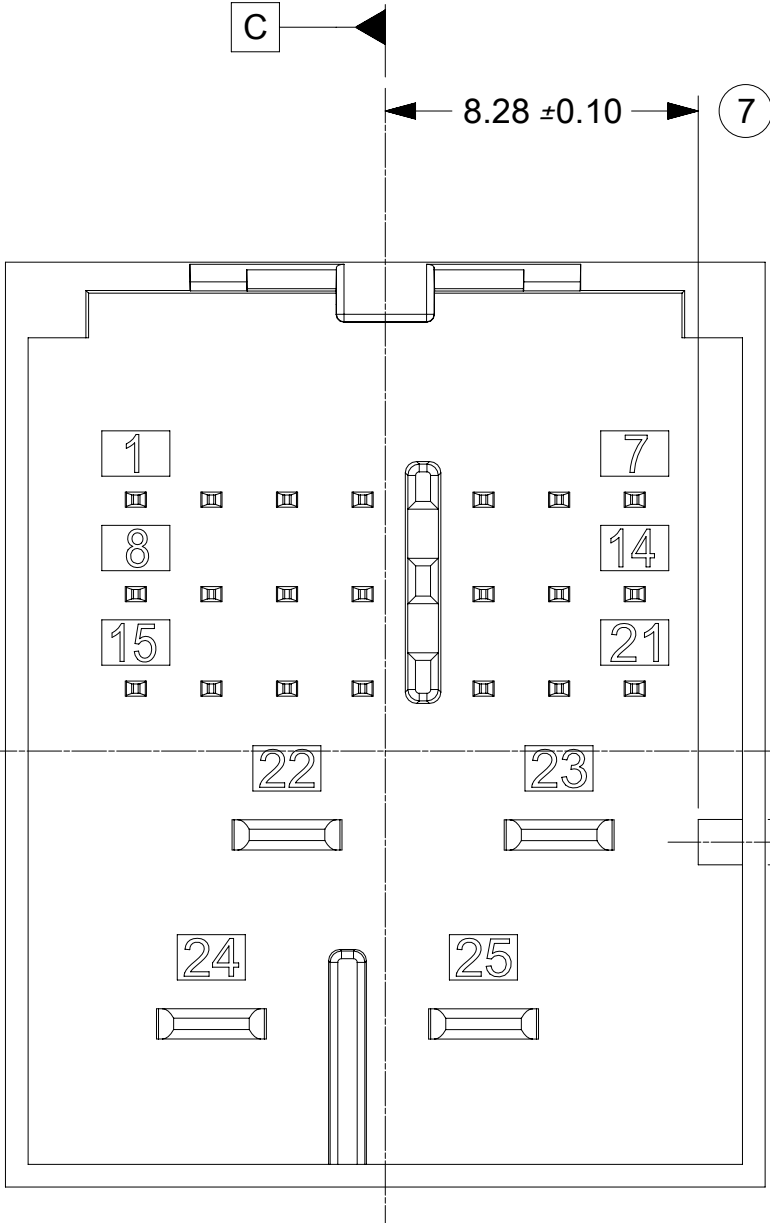
2 OF 2



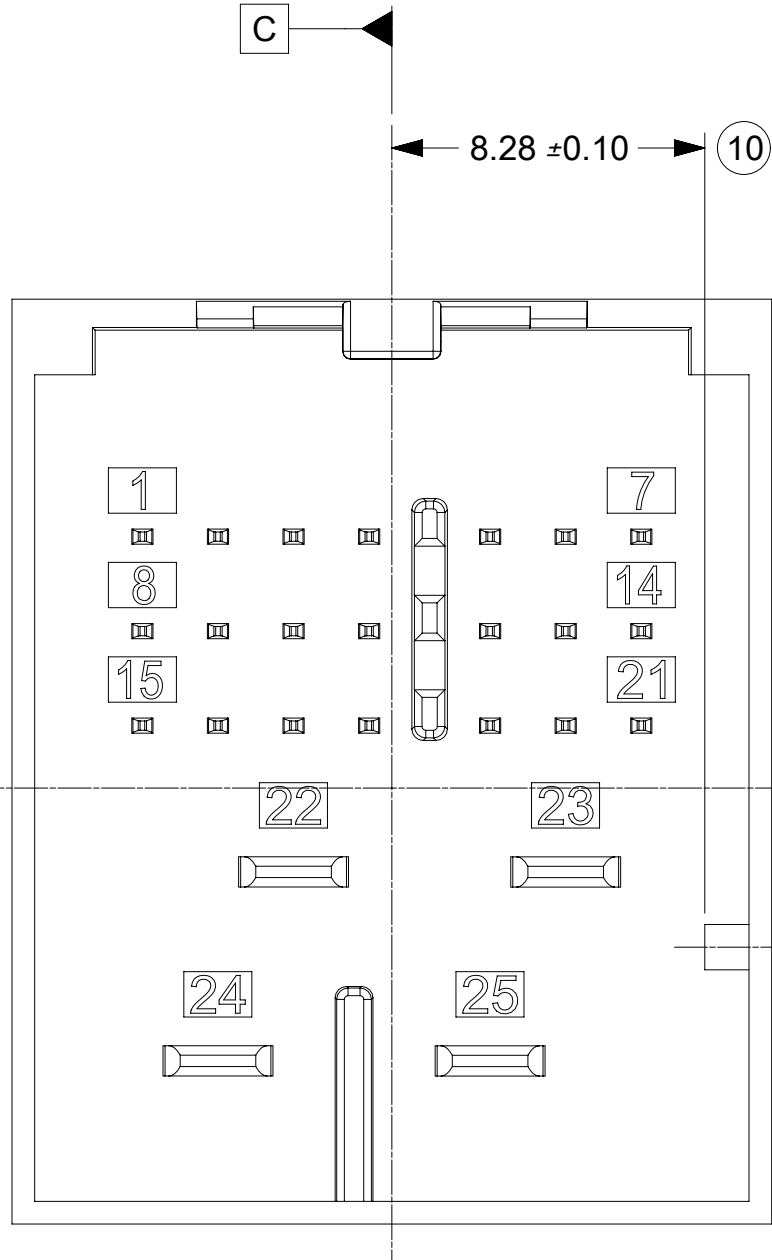
INTERFACE KEY 1 & KEY 5



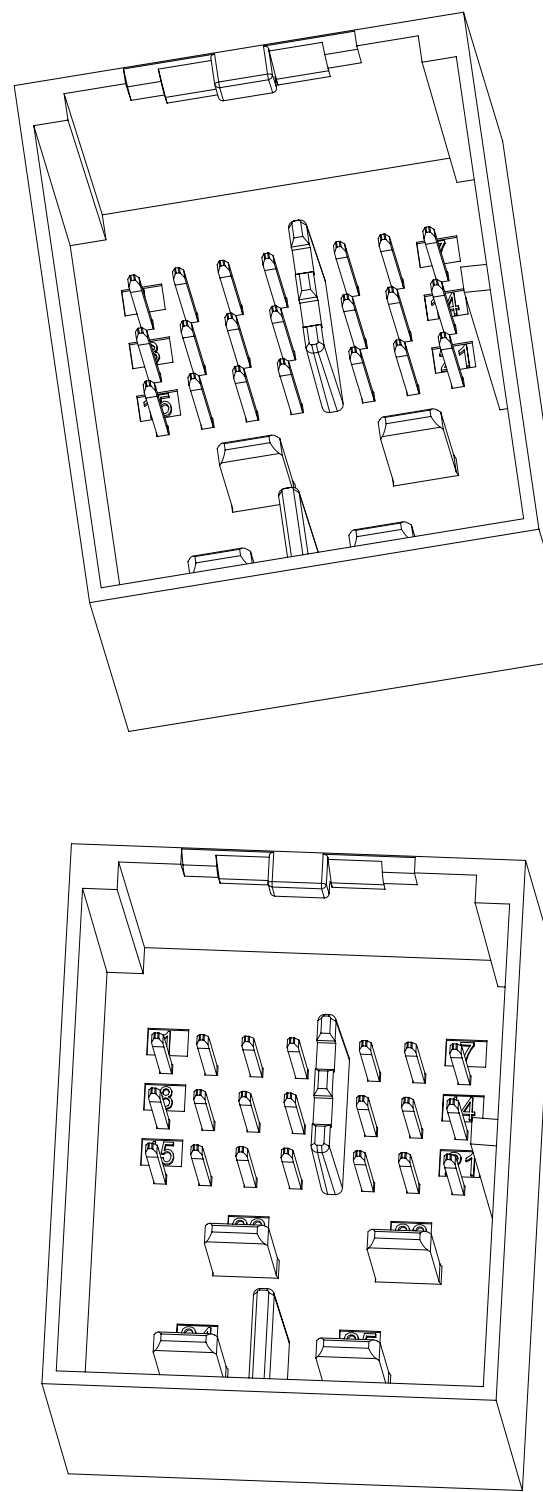
INTERFACE KEY 2 & KEY 6



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:

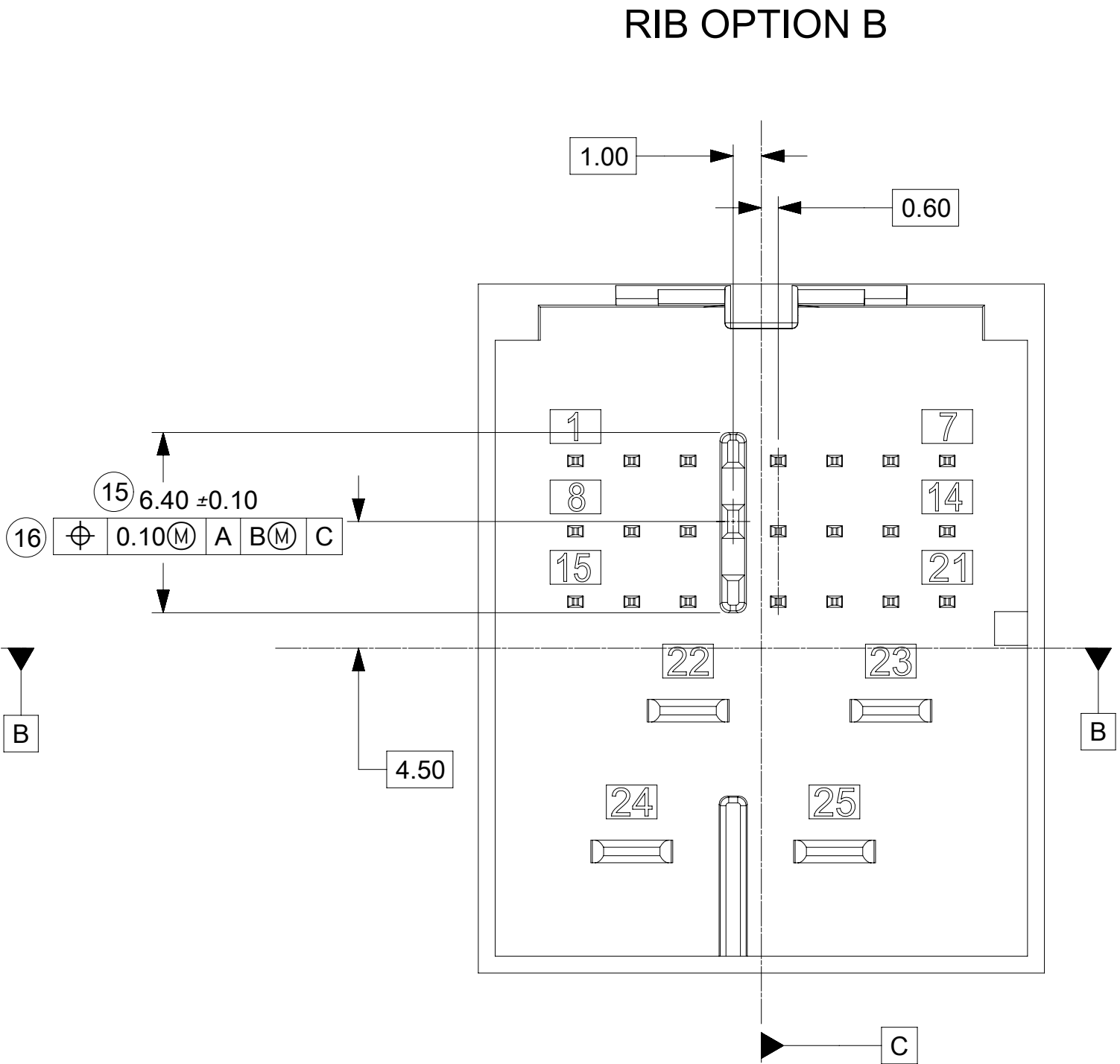
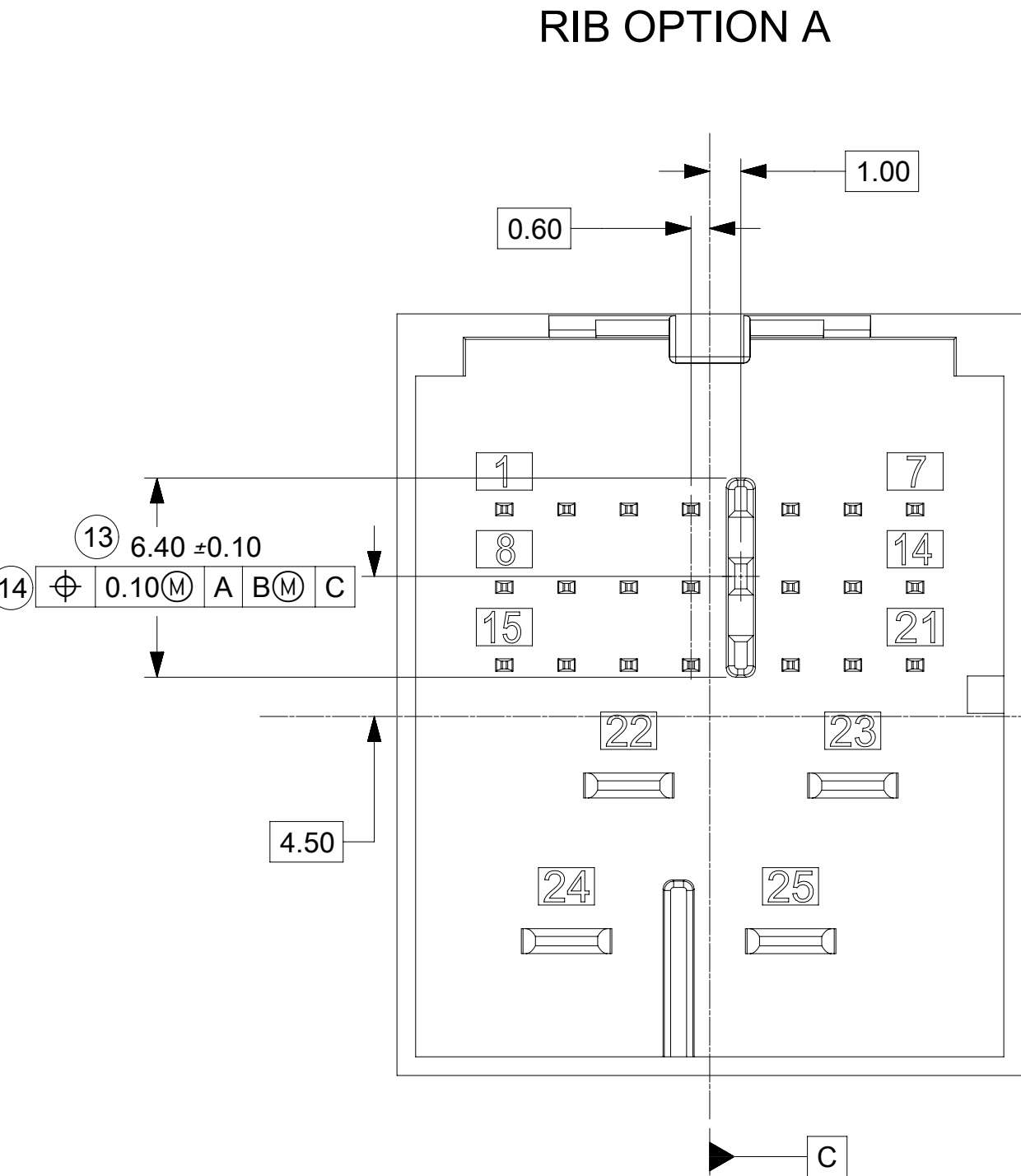
LINEAR : PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING

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.

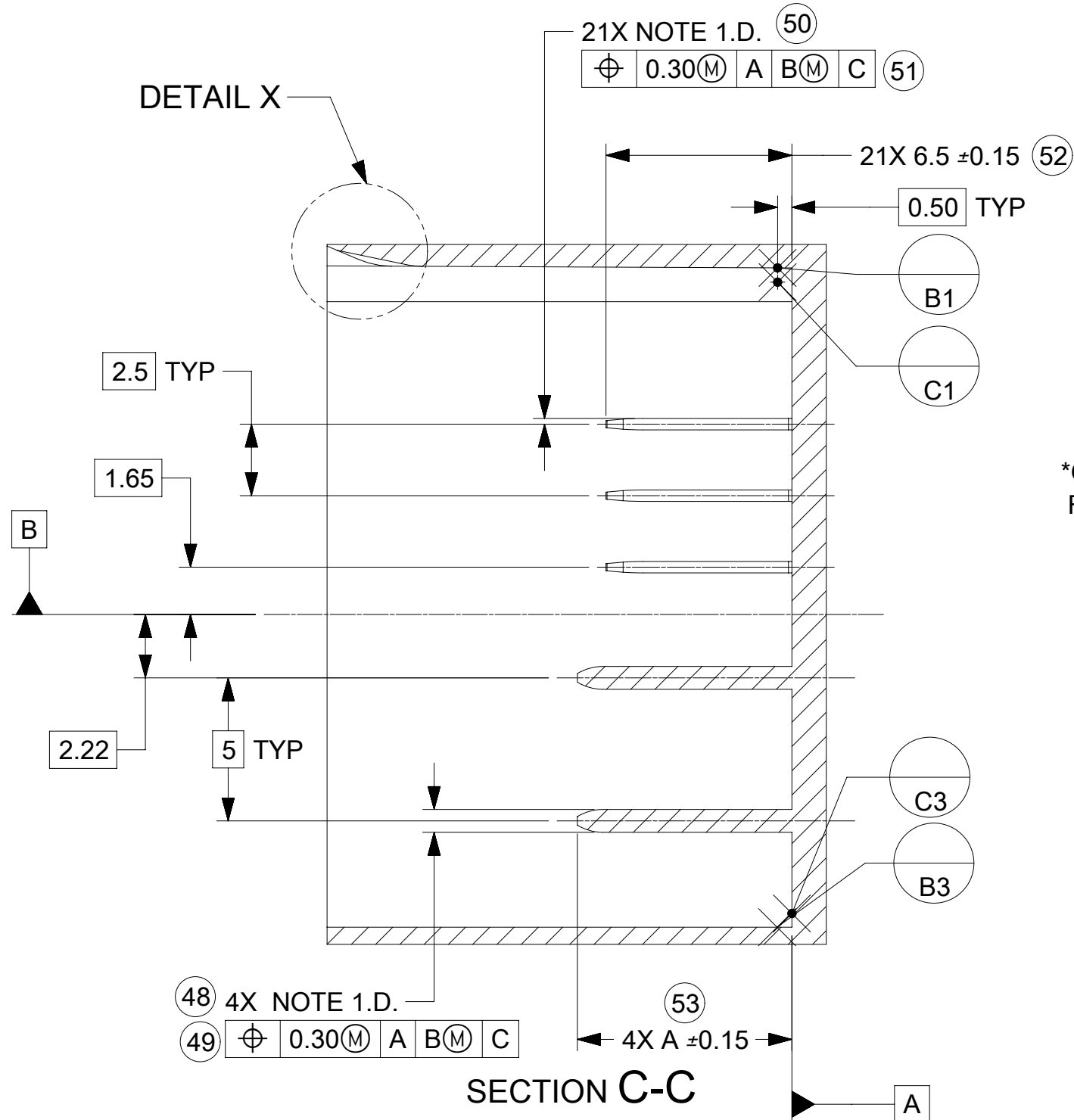
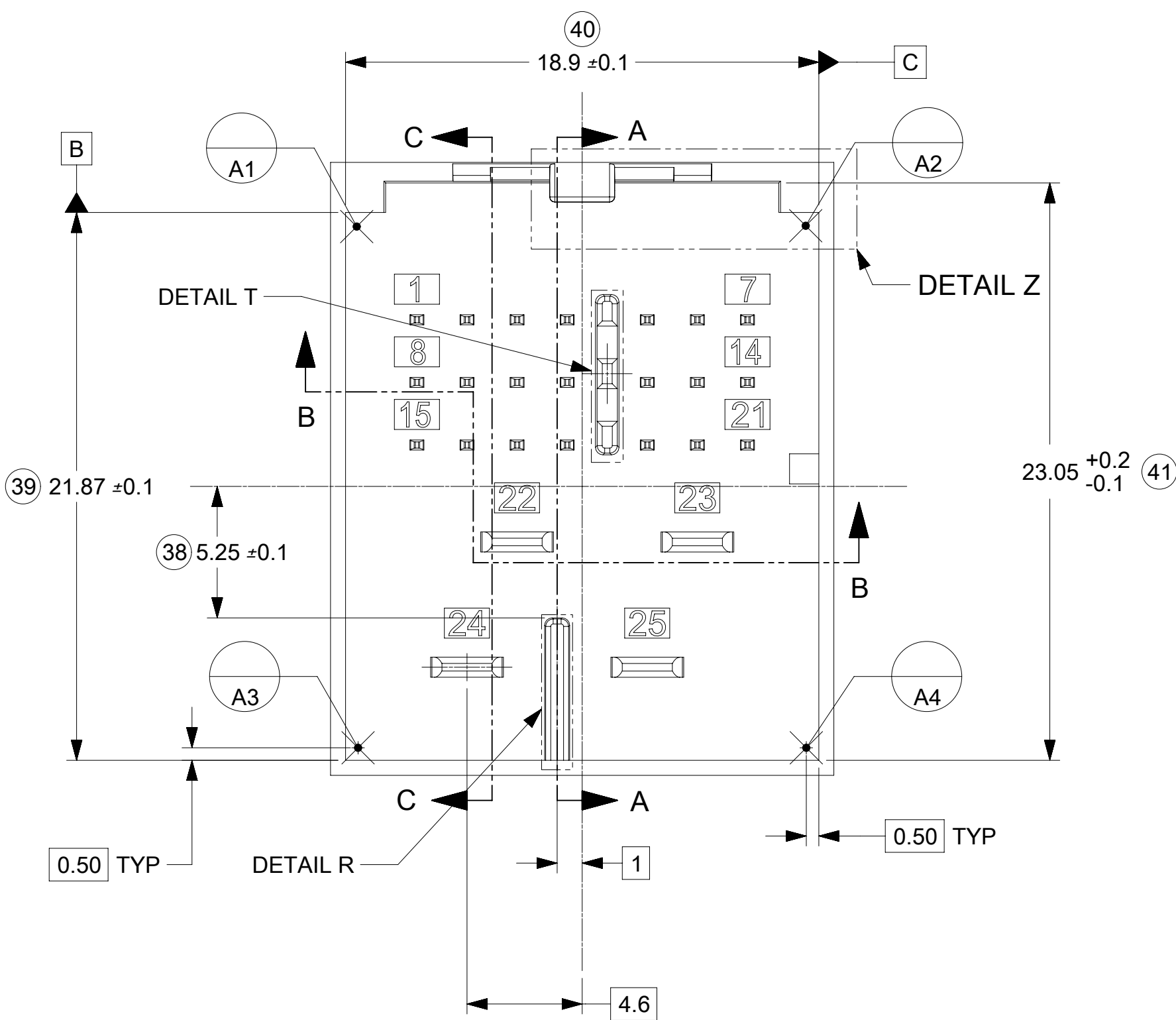
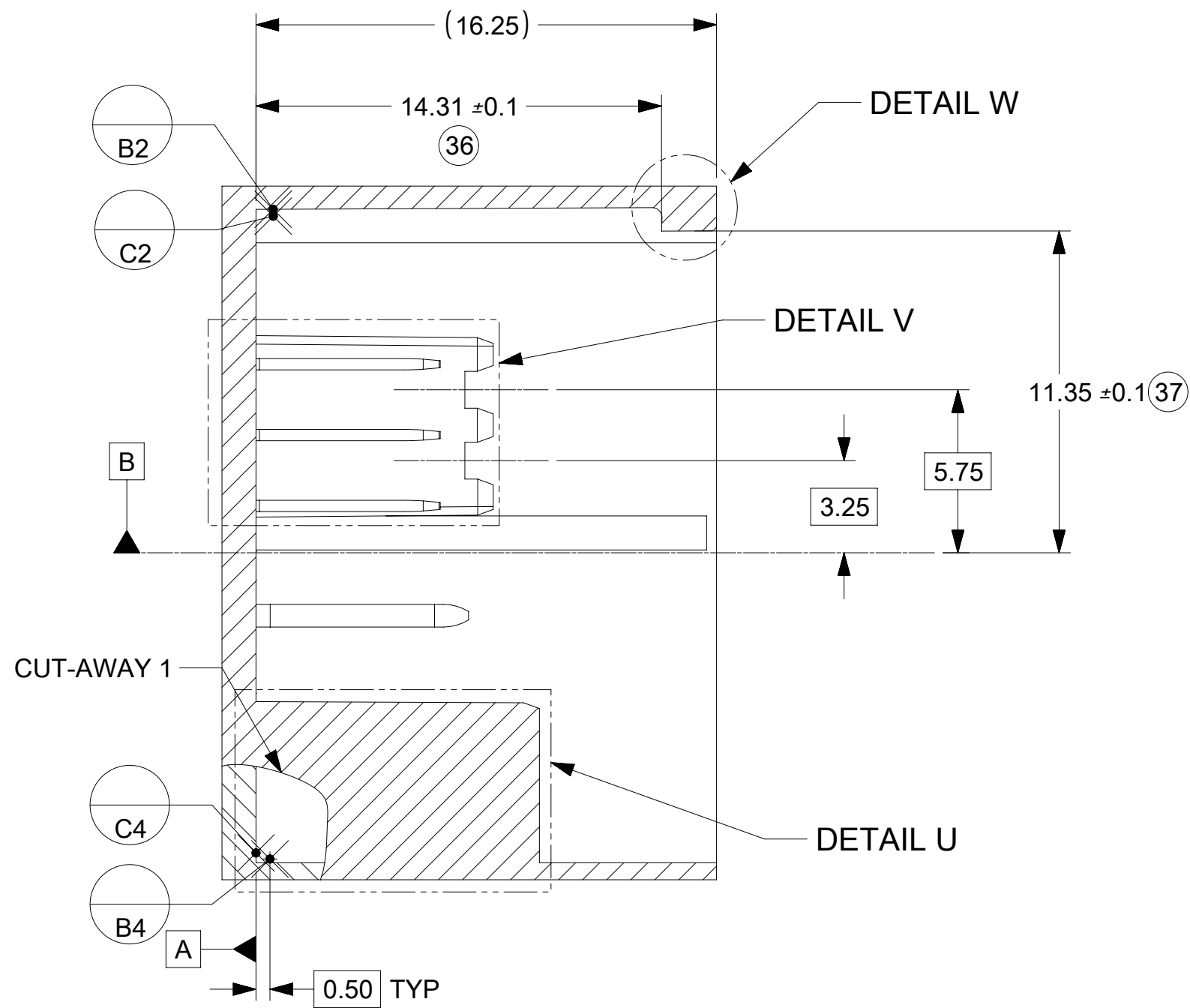
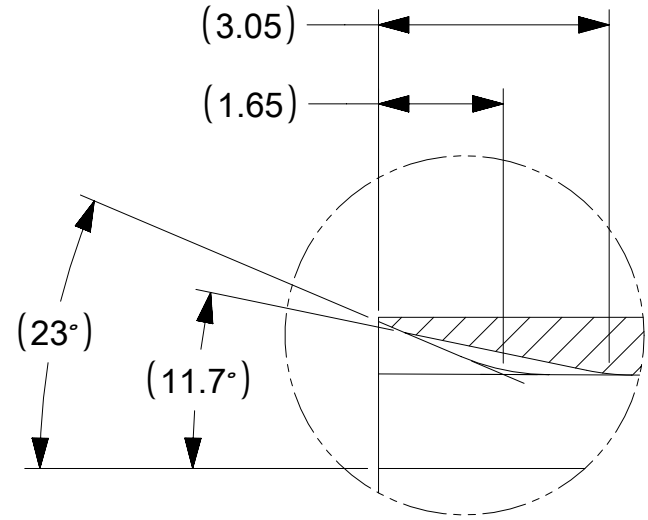
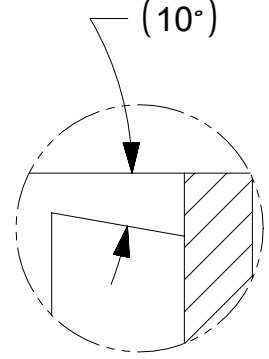
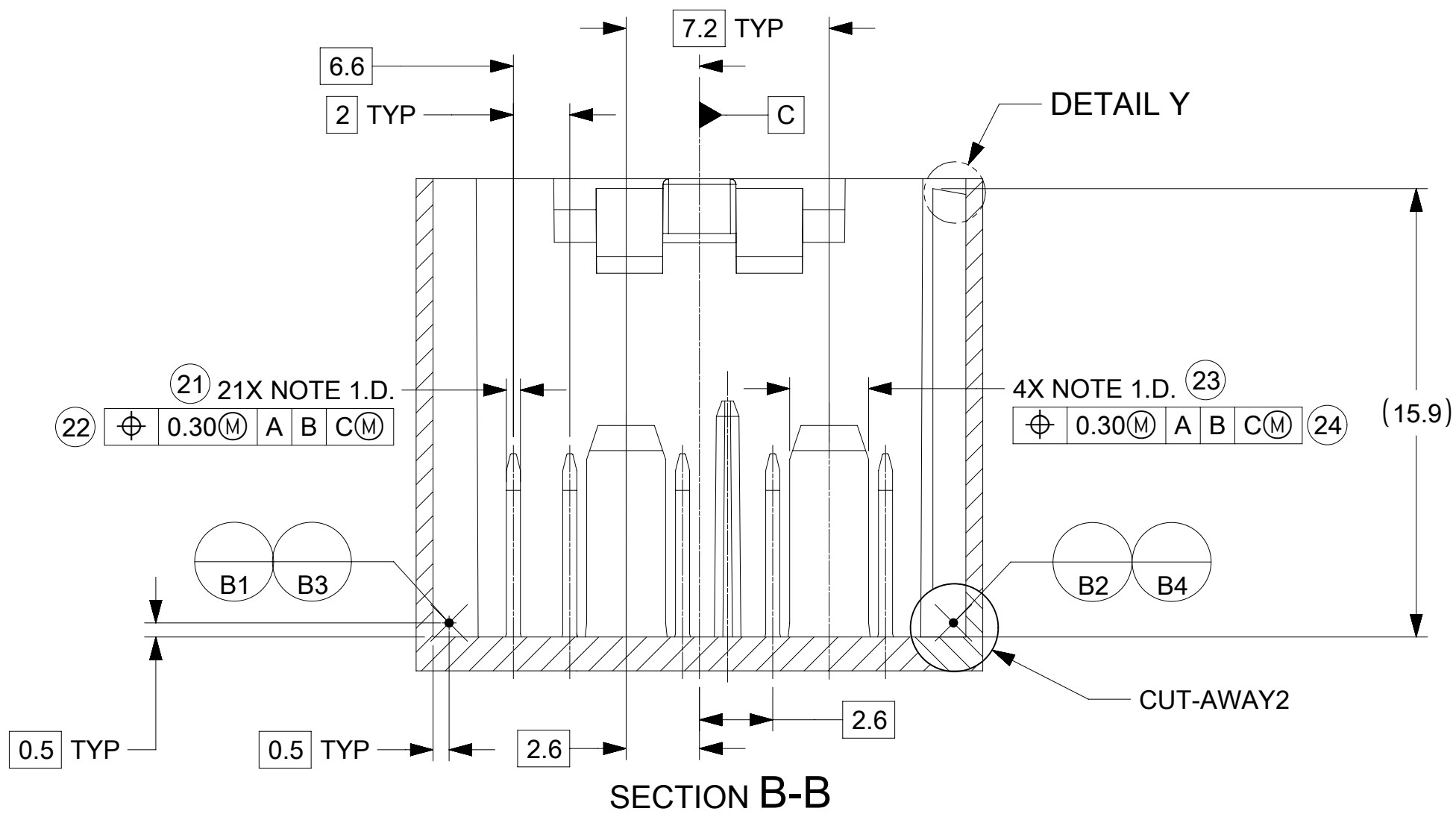
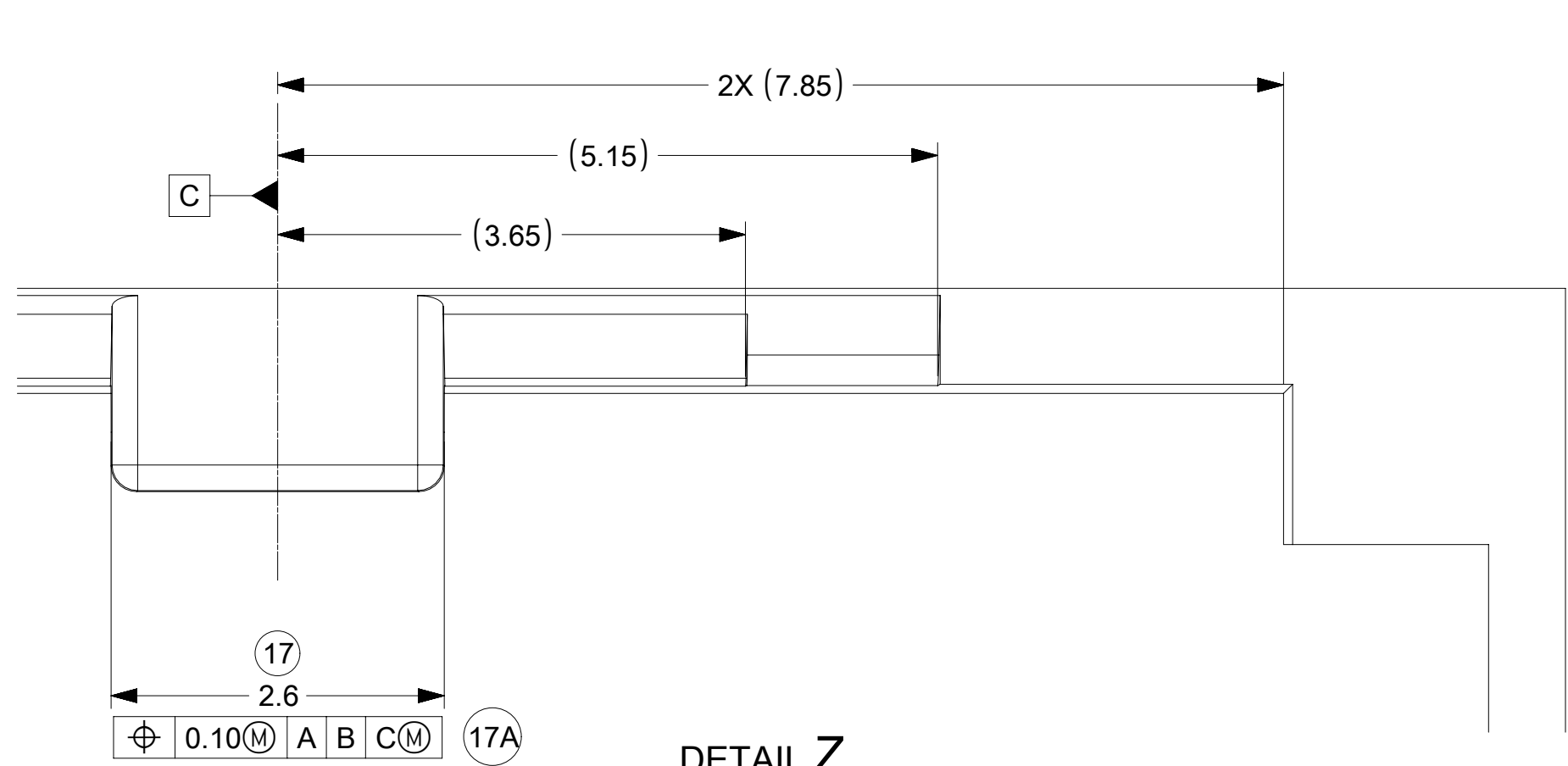
THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- DESIGN - MANUFACTURING:
 - DRAFT TO BE WITHIN TOLERANCE.

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				molex									
mm		5:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)								25WAY STAK50H INTERFACE DRAWING									
ANGULAR TOL ± °				PRODUCT CUSTOMER DRAWING													
4 PLACES		±								EC NO: 649575 DRWN: YPENG47 2020/11/19 CHK'D: JRUTTER 2020/11/23 APPR: MVANSLAMBROU 2020/11/25							
3 PLACES		±															
2 PLACES		±															
1 PLACE		±															
0 PLACES		±		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		SD-160027-002		PSD		000		C1	
						D-SIZE 160027		MATERIAL NUMBER		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 3					

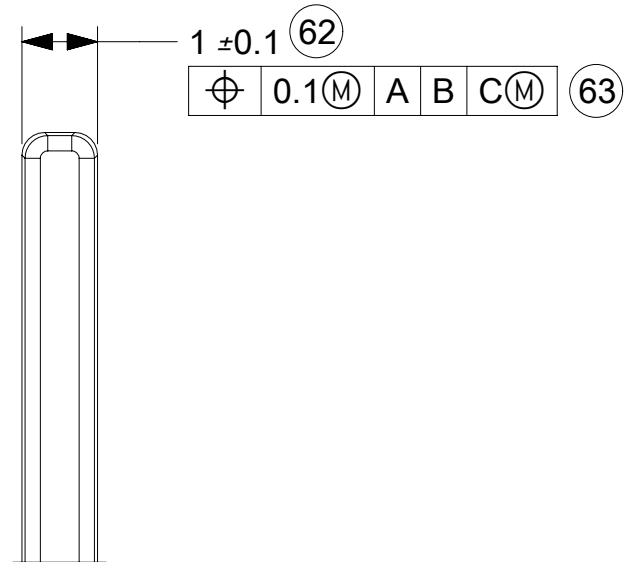
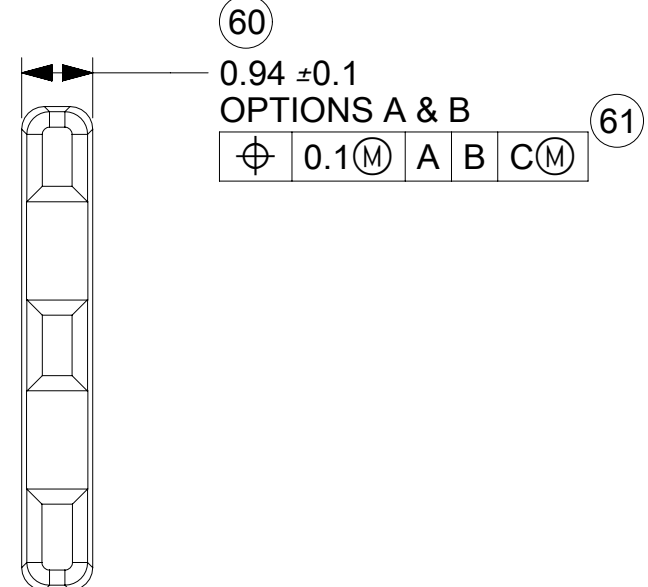
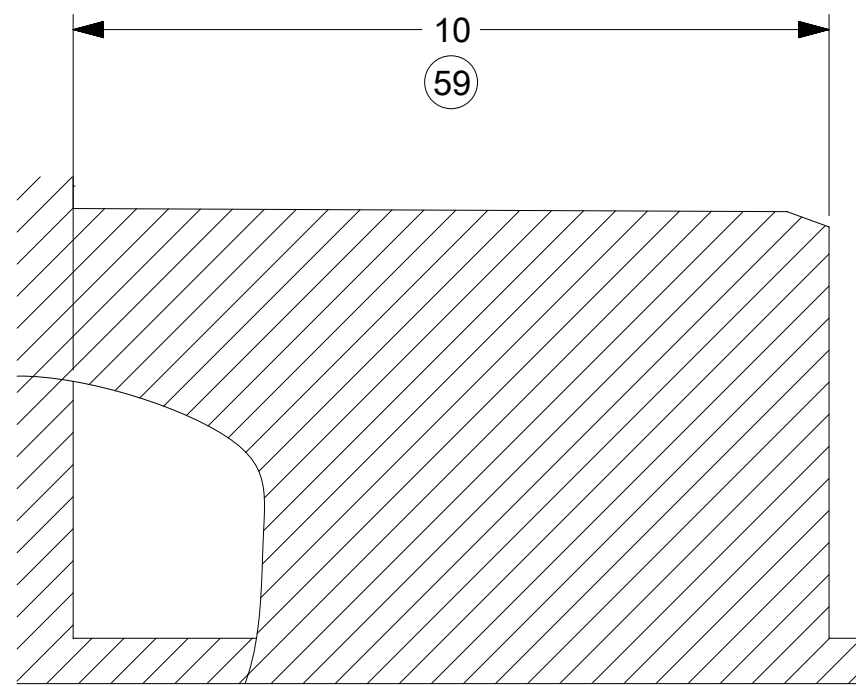
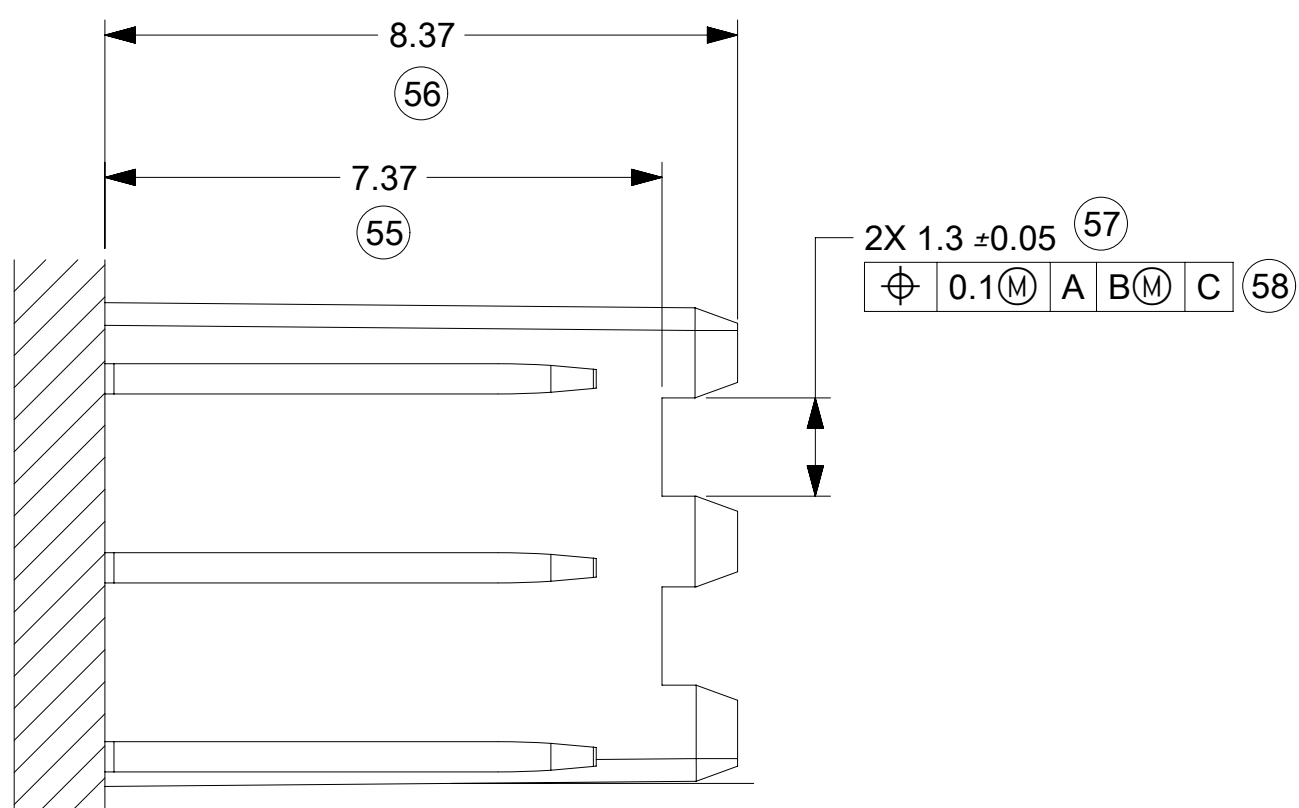
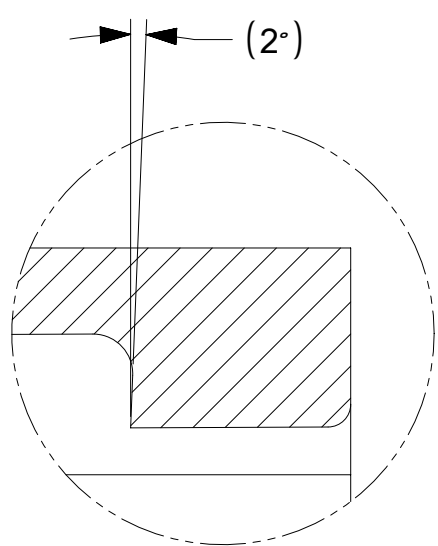


DOCUMENT STATUS	P1	RELEASE DATE	2020/11/25 23:16:39
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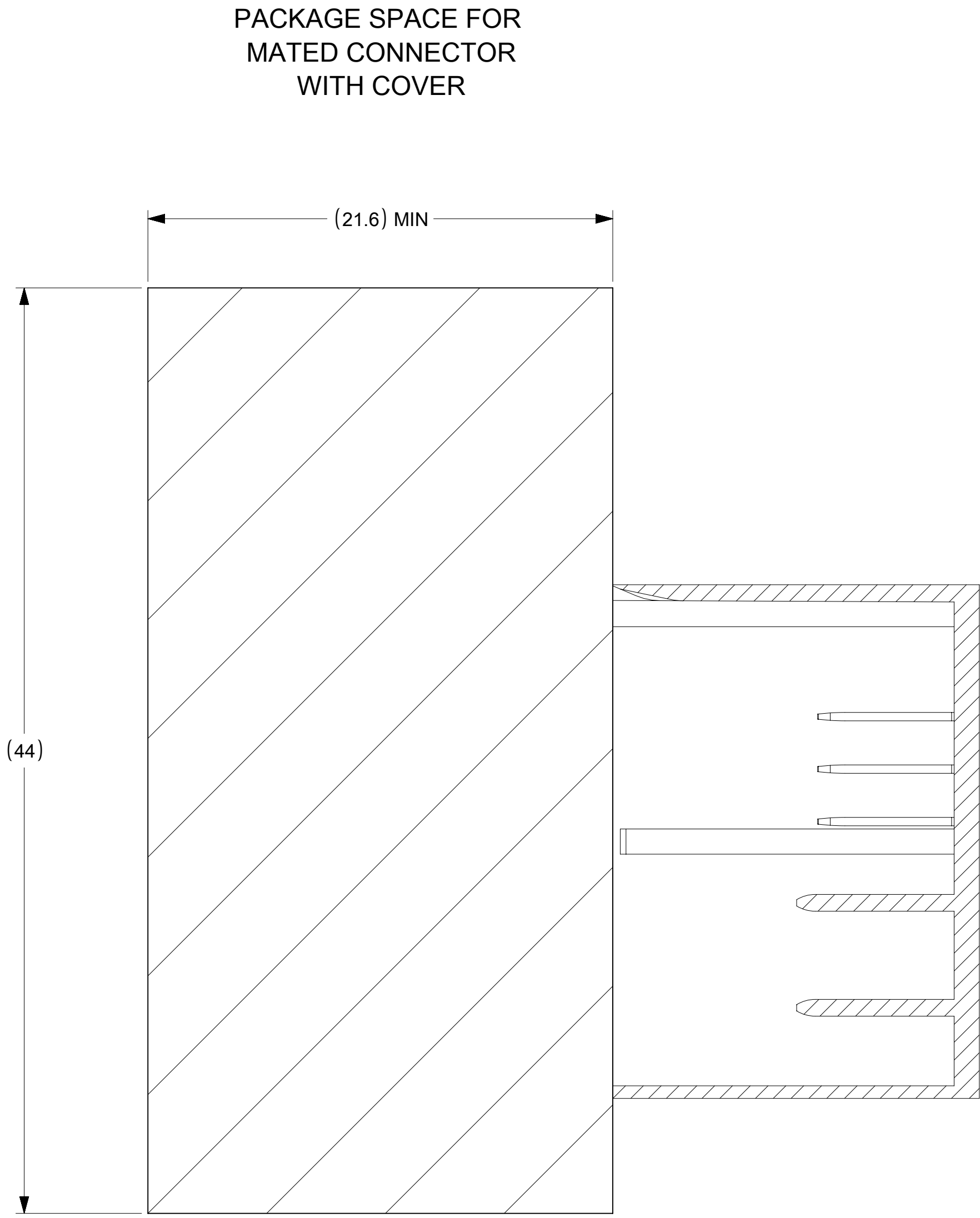
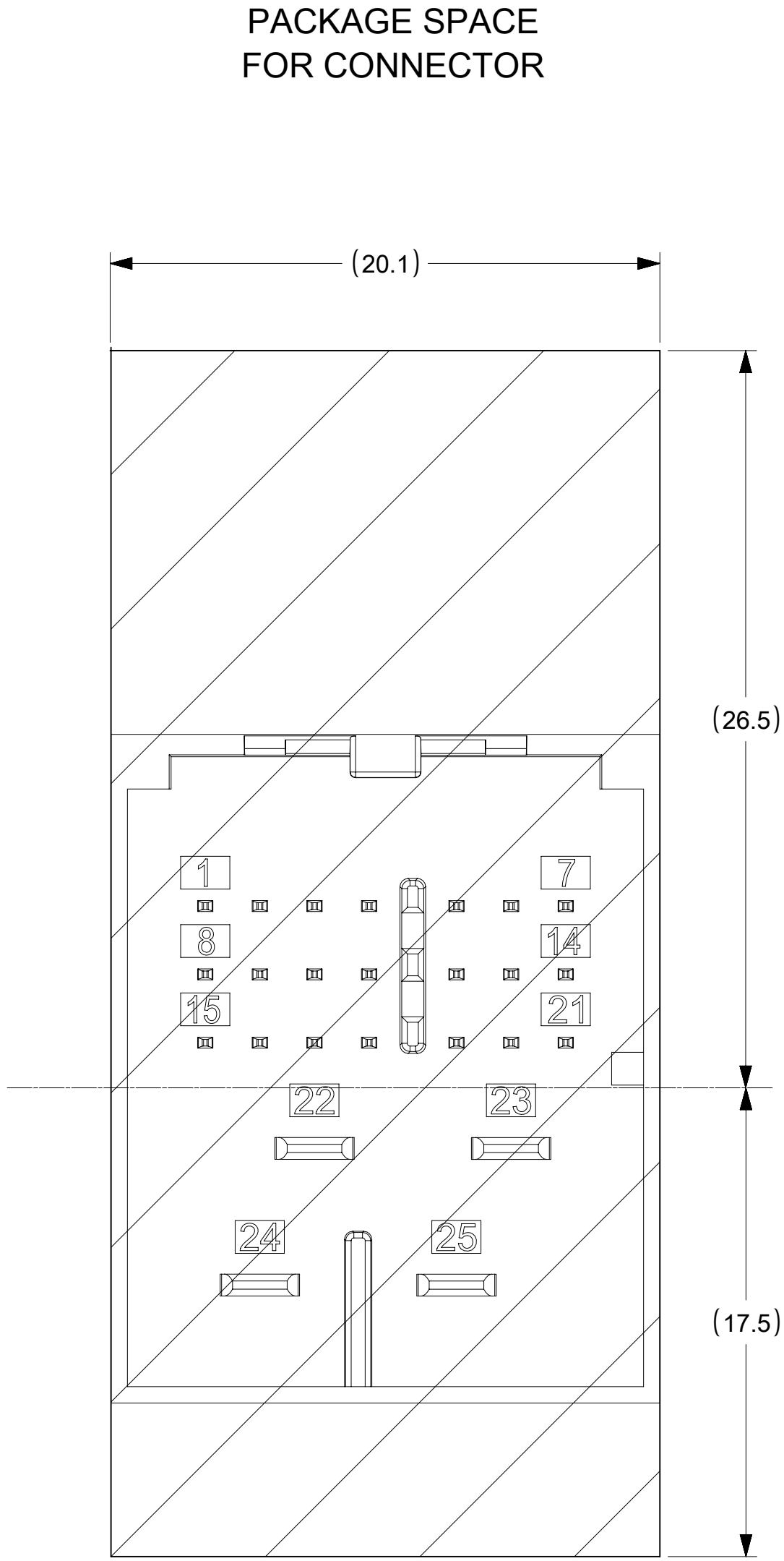
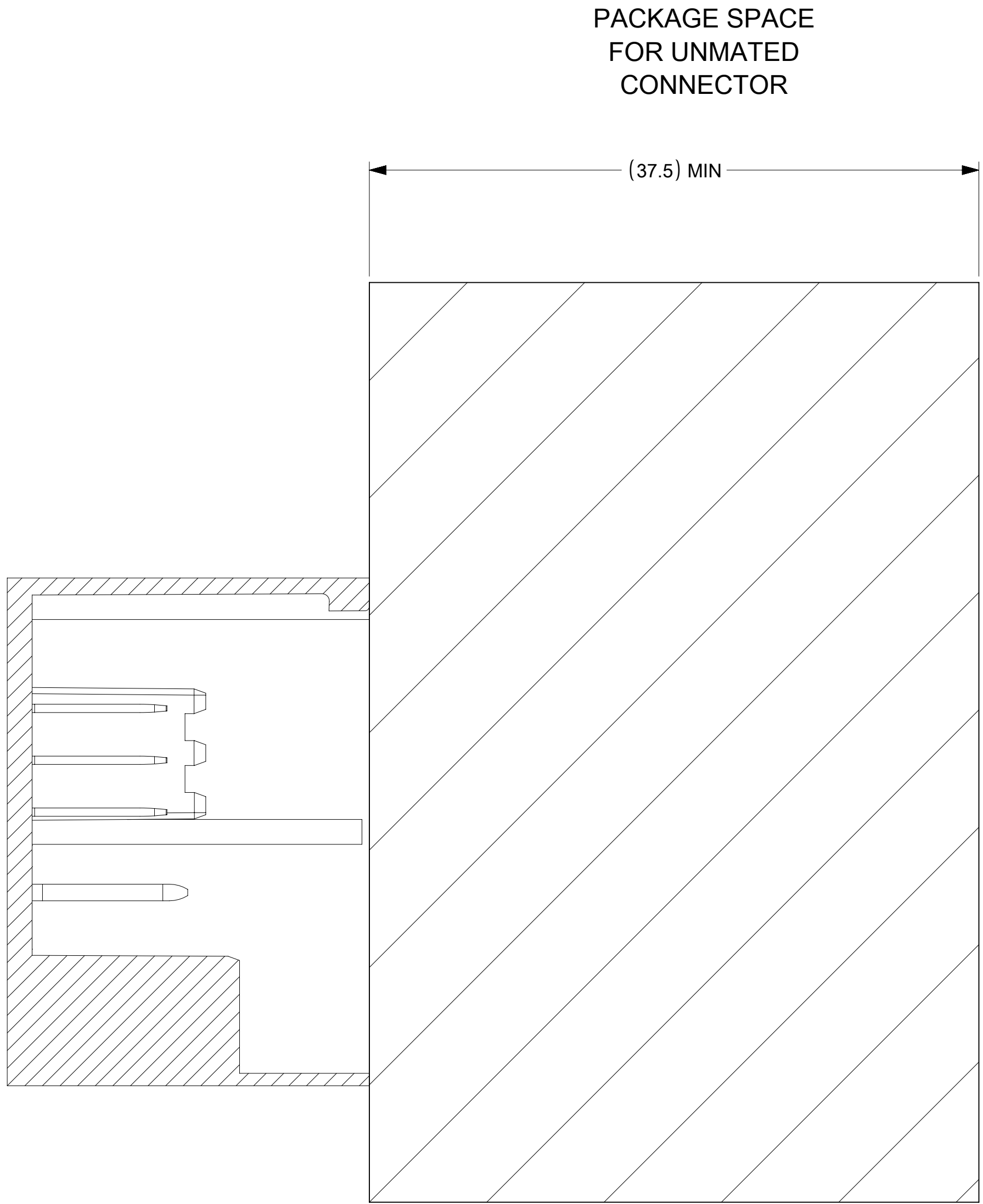
CONSTRUCTION	DIM. A (mm)	STATUS
OPTION A	7.5	REVISION B
OPTION B	6.5	REVISION C

*OPTION B IS THE PREFERRED CONSTRUCTION FOR ALL NEW HEADERS



FUNCTIONAL SYMBOLS	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)					25WAY STAK50H INTERFACE DRAWING												
	ANGULAR TOL ± °																	
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 649575			PRODUCT CUSTOMER DRAWING										
	3 PLACES		±		DRWN: YPENG47 2020/11/19													
	2 PLACES		±		CHK'D: JRUTTER 2020/11/23													
	1 PLACE		±		APPR: MVANSLAMBROU 2020/11/25													
	0 PLACES		±		INITIAL REVISION:													
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	
											MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
													GENERAL MARKET				2 OF 3	

DOCUMENT STATUS	P1	RELEASE DATE	2020/11/25	23:16:39
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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			molex									
	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			25WAY STAK50H INTERFACE DRAWING									
	4 PLACES		±														
	3 PLACES		±														
	2 PLACES		±		PRODUCT CUSTOMER DRAWING			DOCUMENT NUMBER SD-160027-002			DOC TYPE PSD	DOC PART 000	REVISION C1				
	1 PLACE		±														
	0 PLACES		±														
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING D-SIZE		SERIES 160027		MATERIAL NUMBER		CUSTOMER GENERAL MARKET		SHEET NUMBER 3 OF 3	