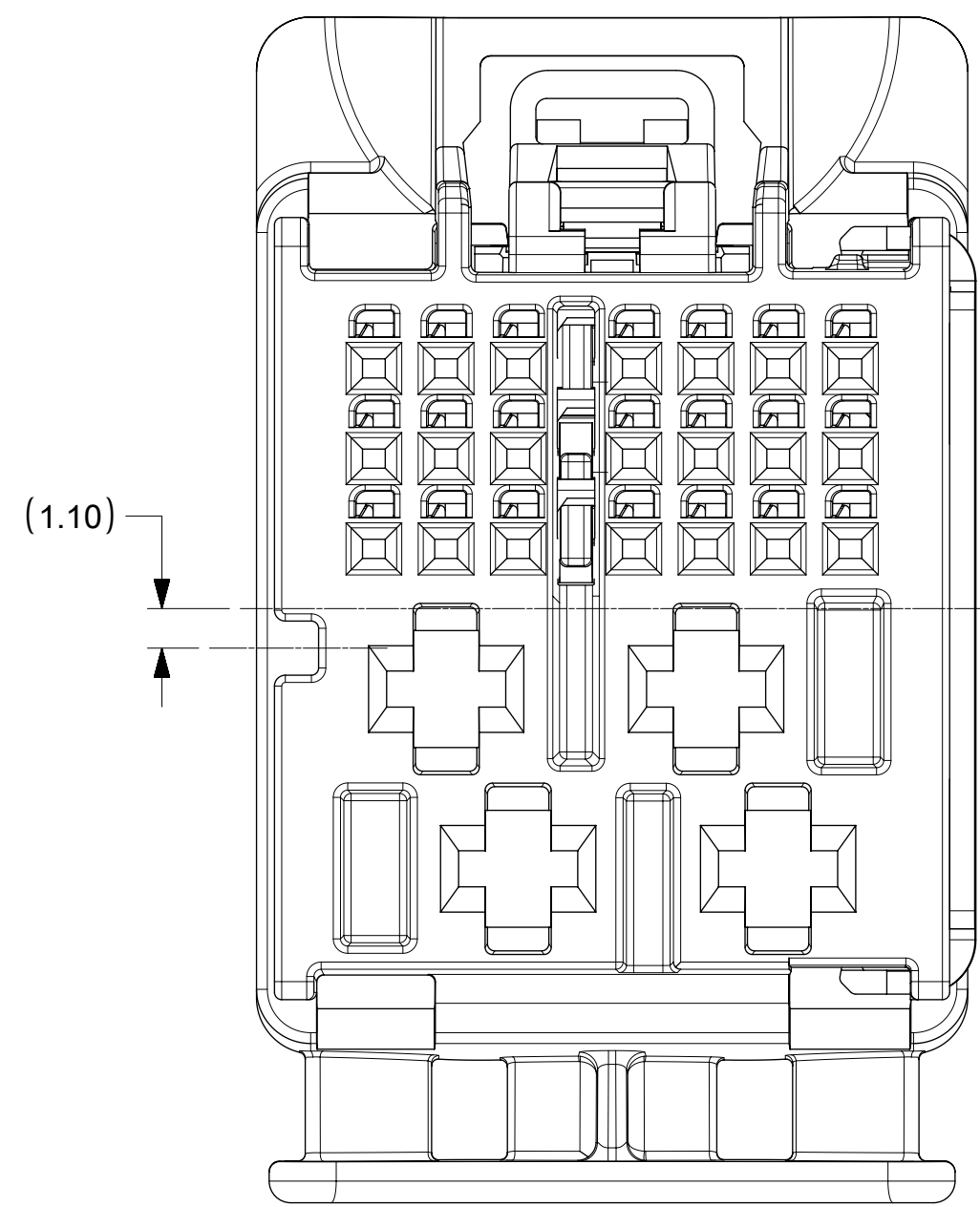
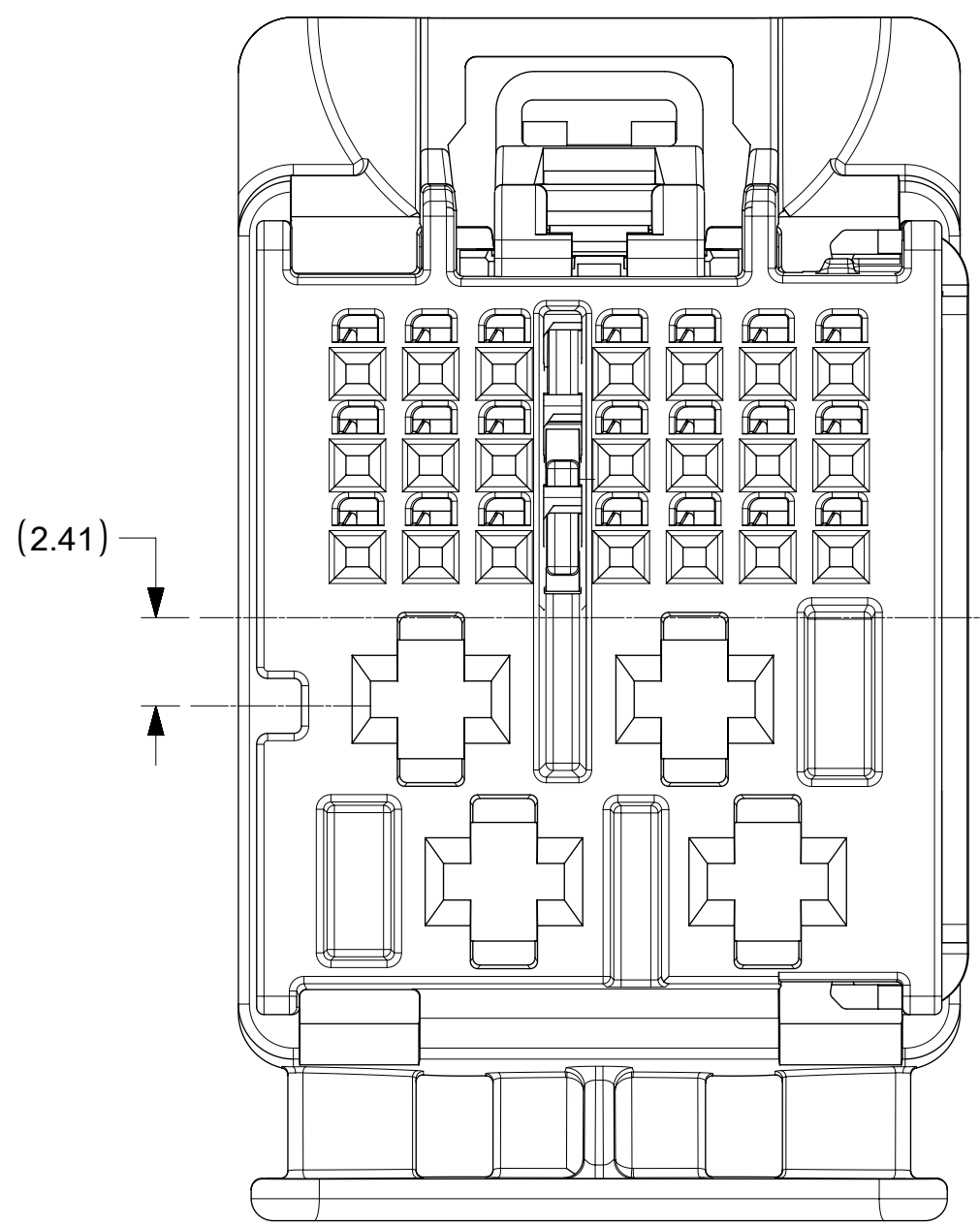


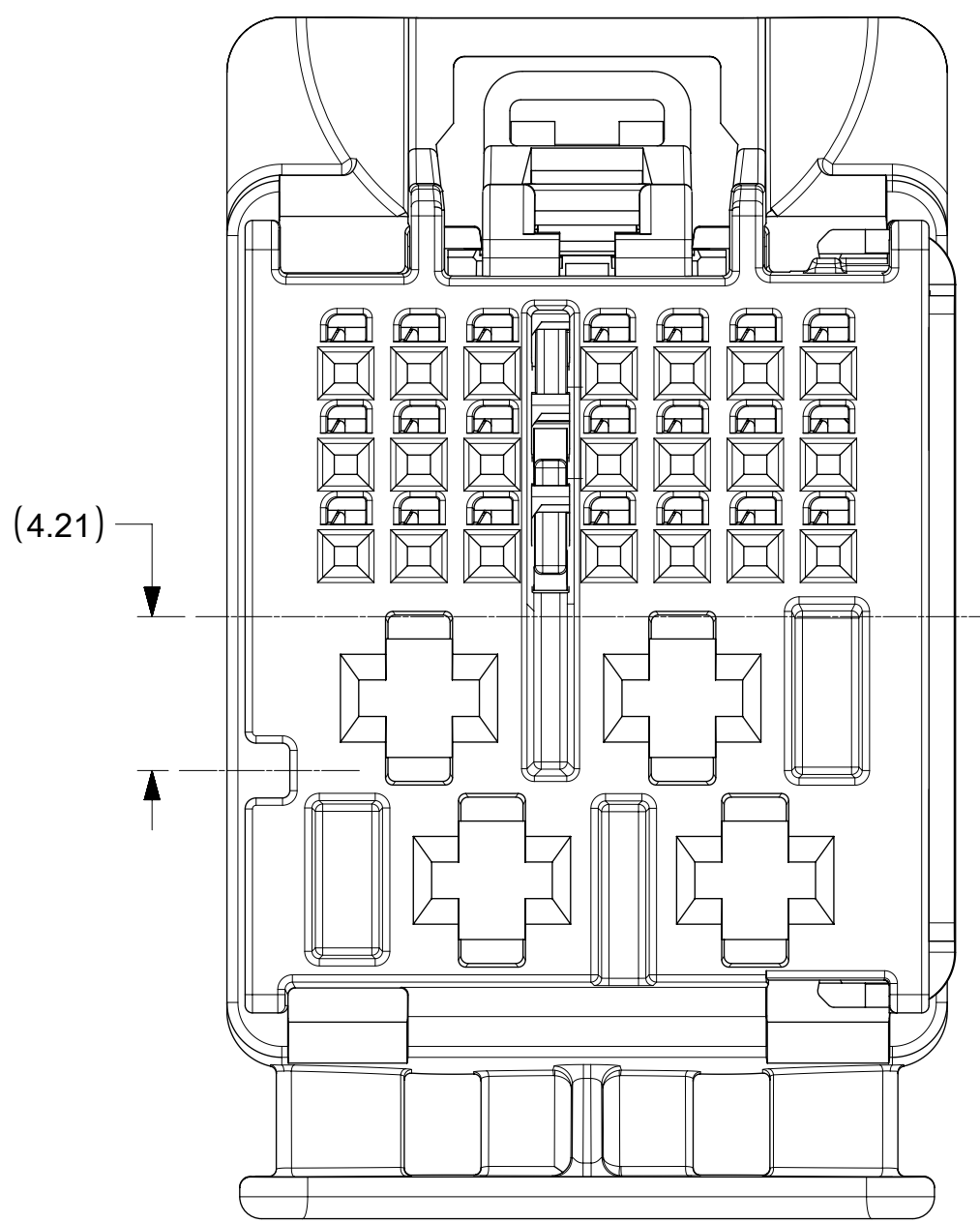
25WAY CONNECTOR ASSEMBLY
KEY 1 & KEY 5



25WAY CONNECTOR ASSEMBLY
KEY 2 & KEY 6



25WAY CONNECTOR ASSEMBLY
KEY 3 & KEY 7



25WAY 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 Y14.5M-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

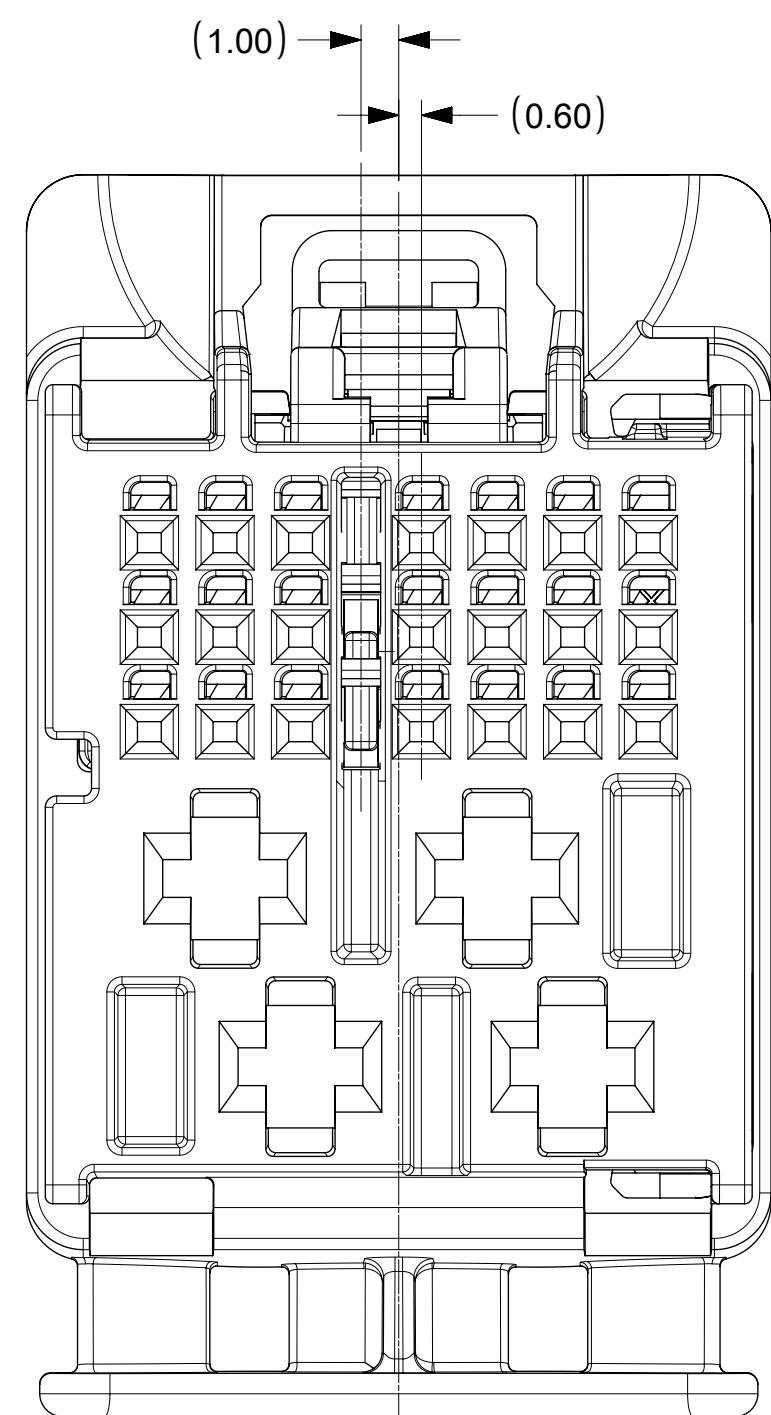
4. DESIGN - MANUFACTURING:
- a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-0101	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-0201	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	

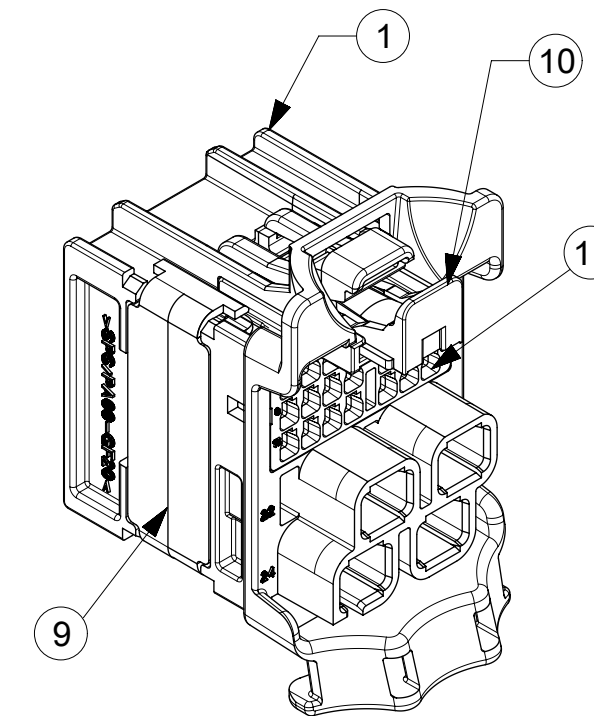
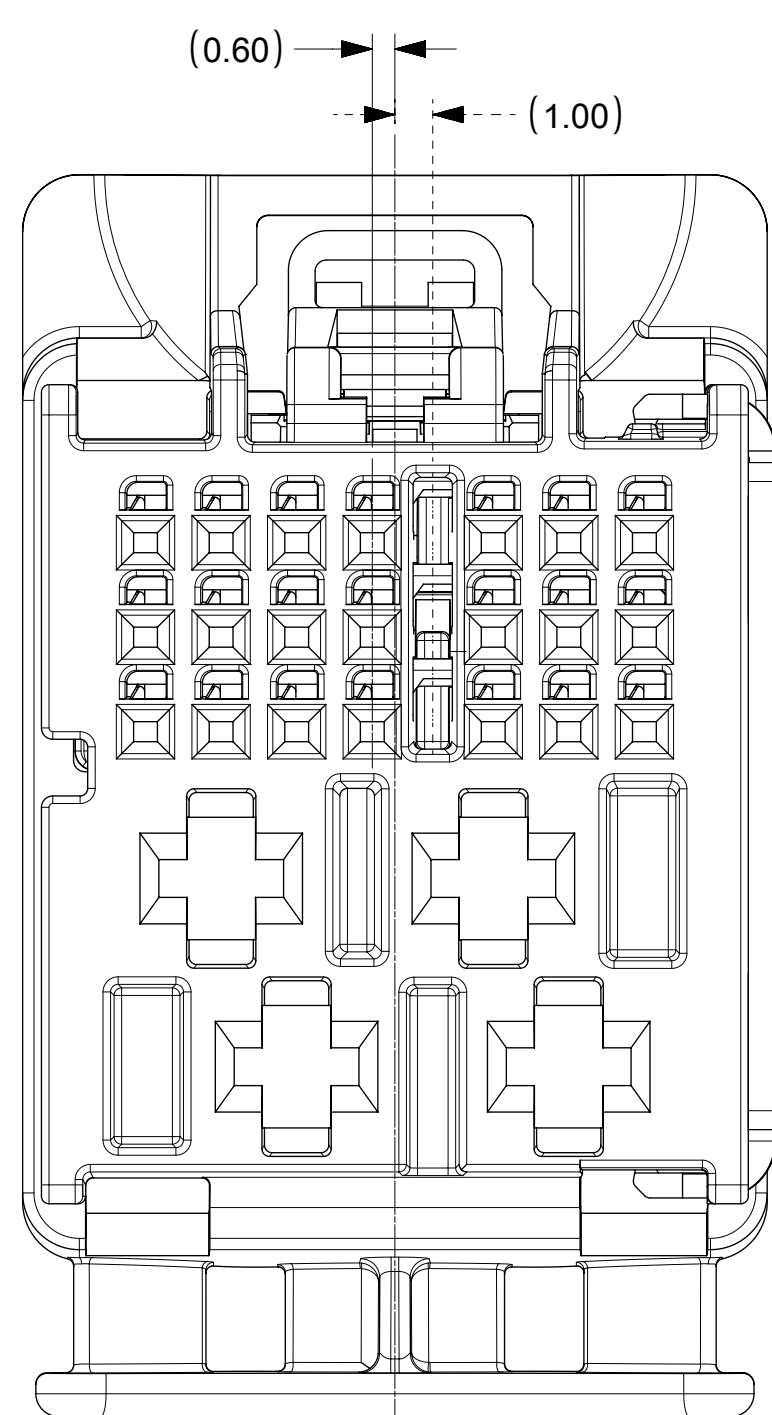
MOLEX ASSEMBLY PART NO.'S	
1600270001	KEY 1
1600270002	KEY 2
1600270003	KEY 3
1600270004	KEY 4
1600270005	KEY 5
1600270006	KEY 6
1600270007	KEY 7
1600270008	KEY 8

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	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	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			

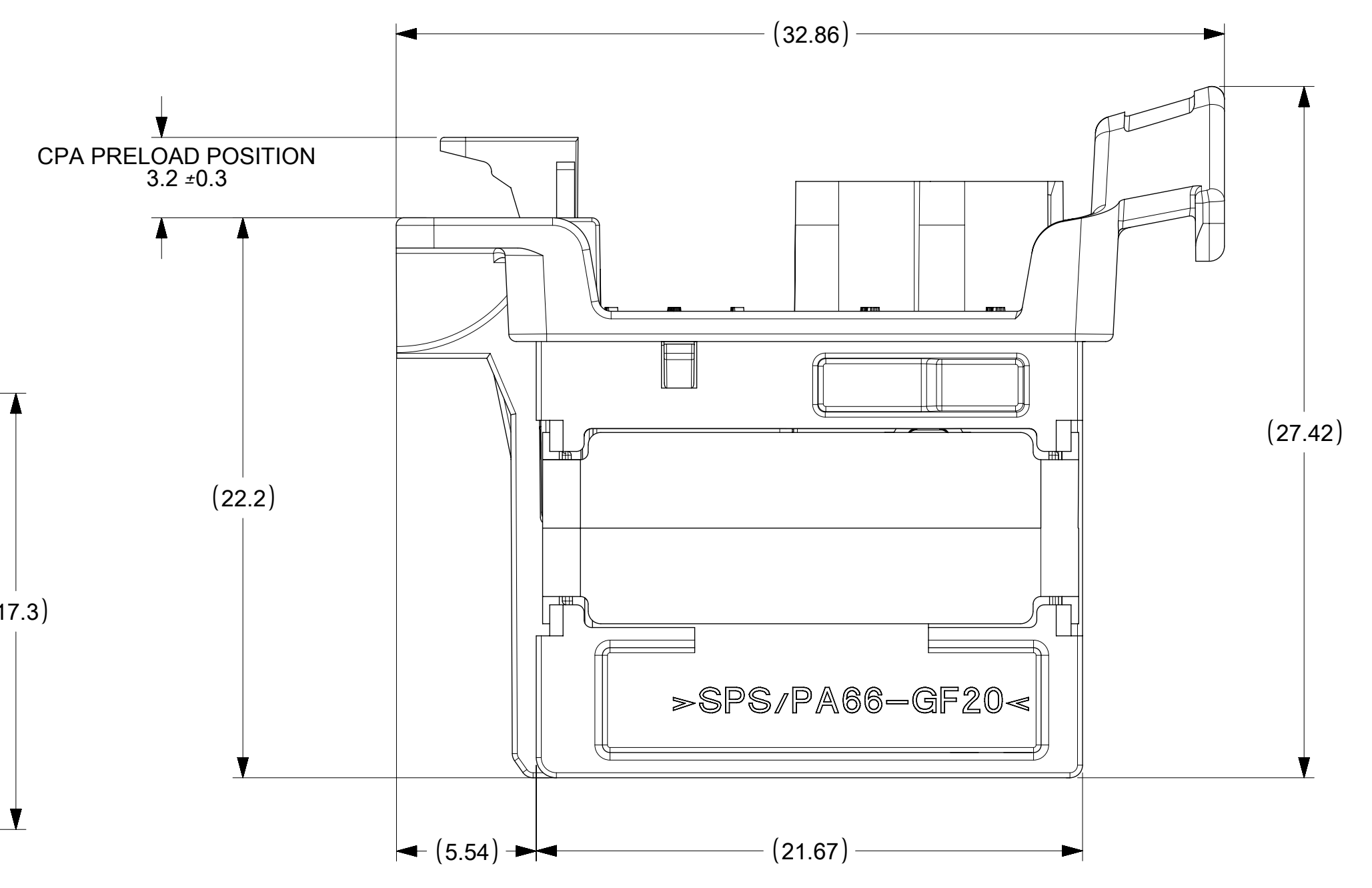
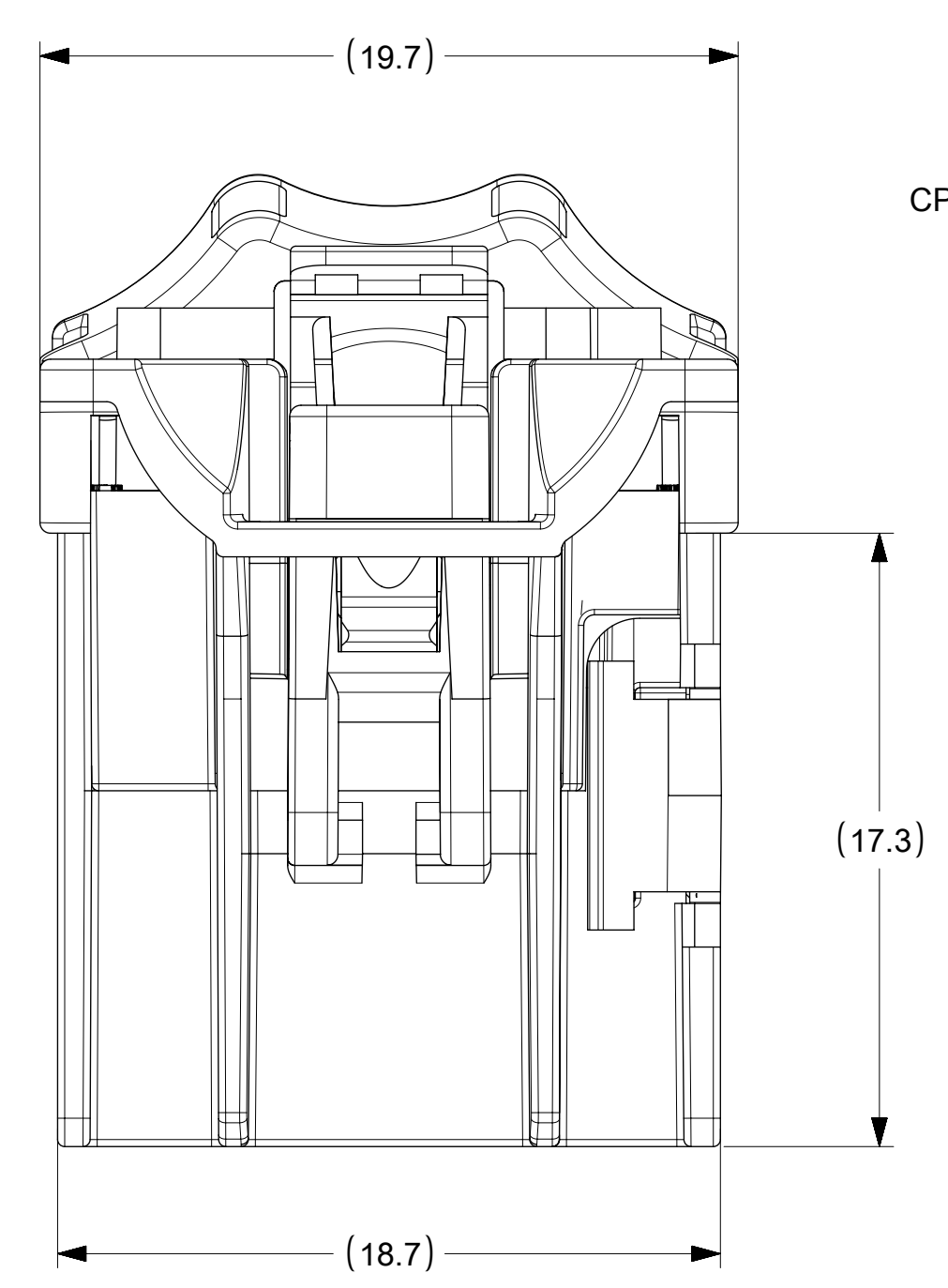
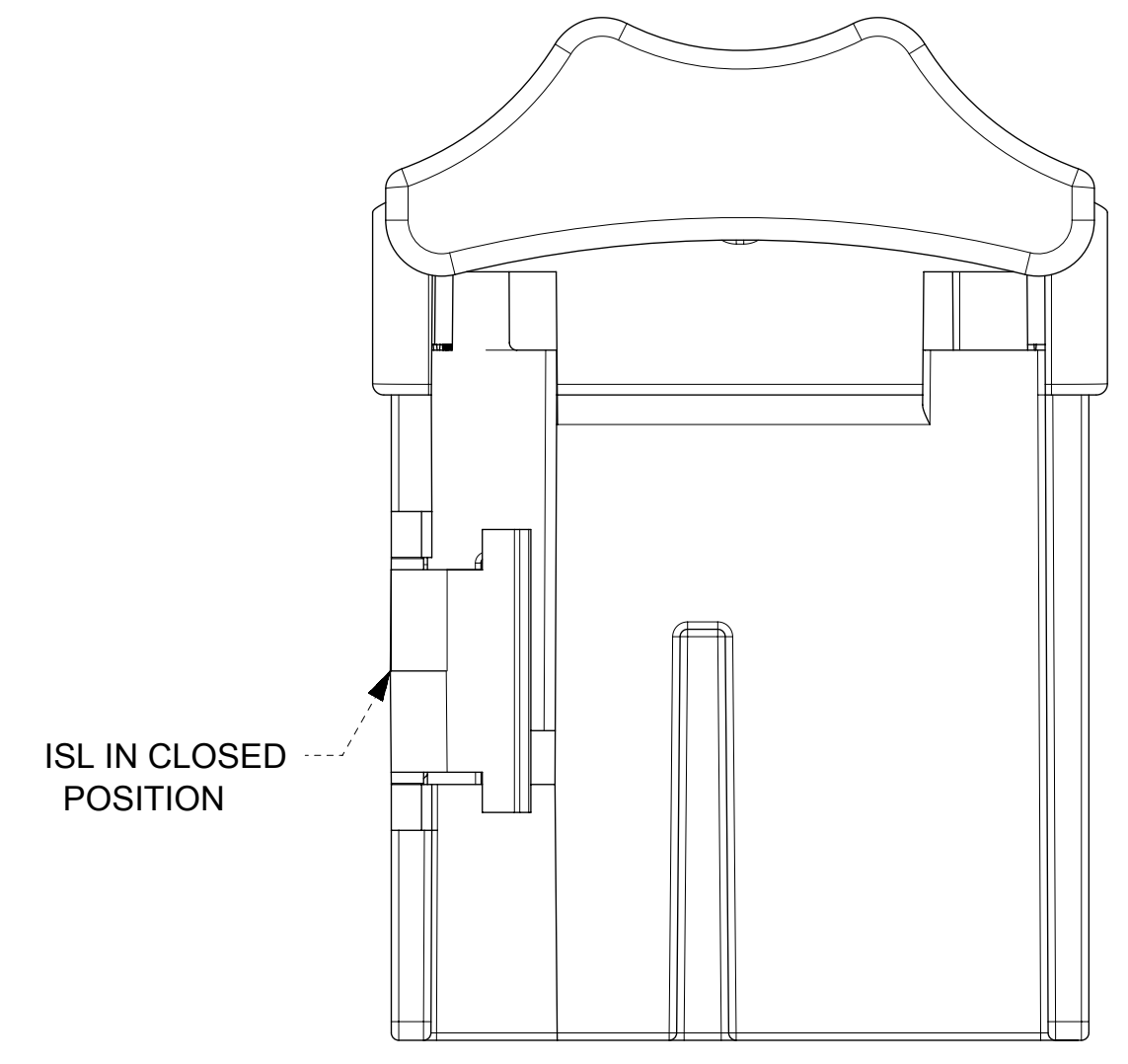
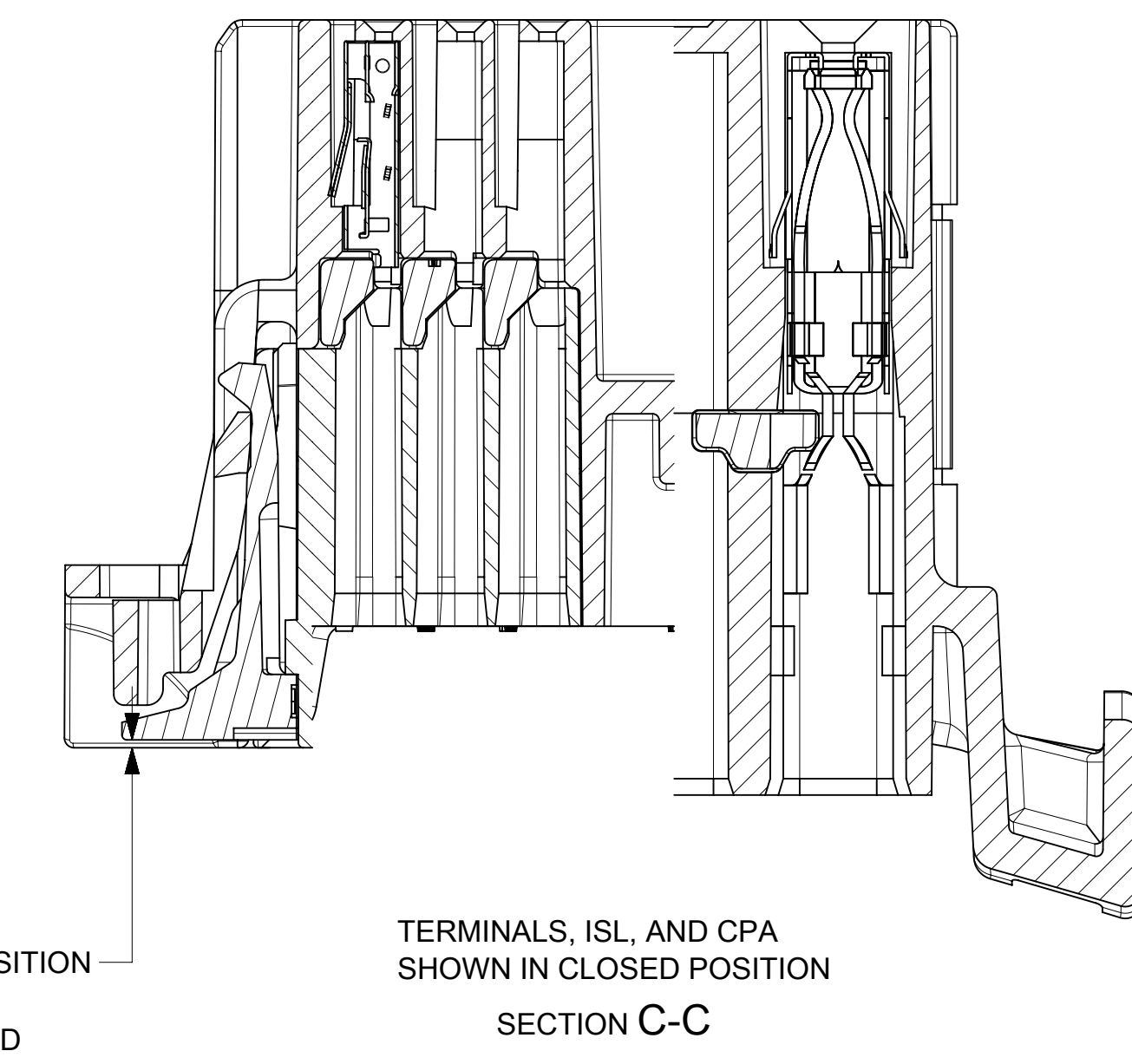
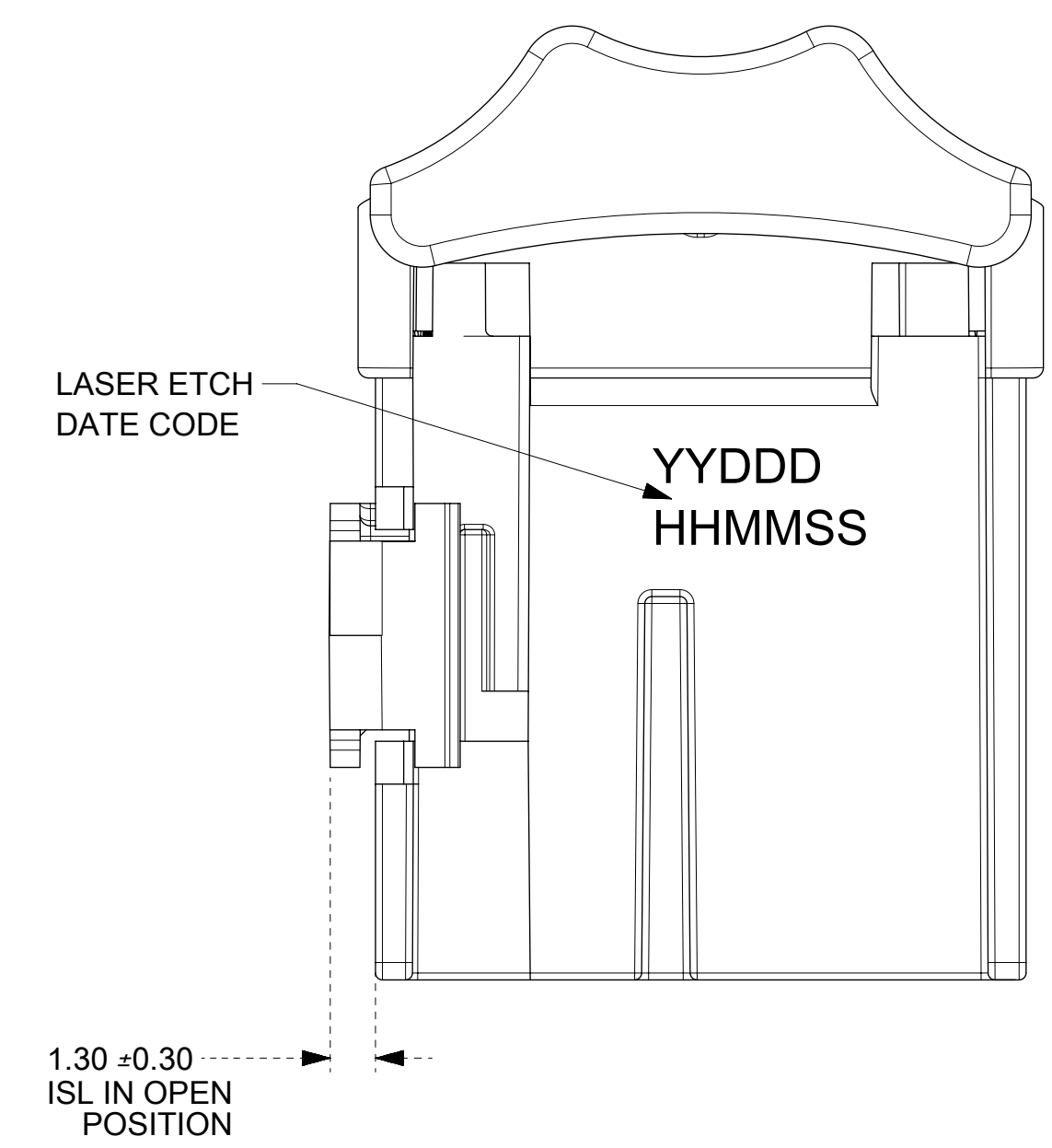
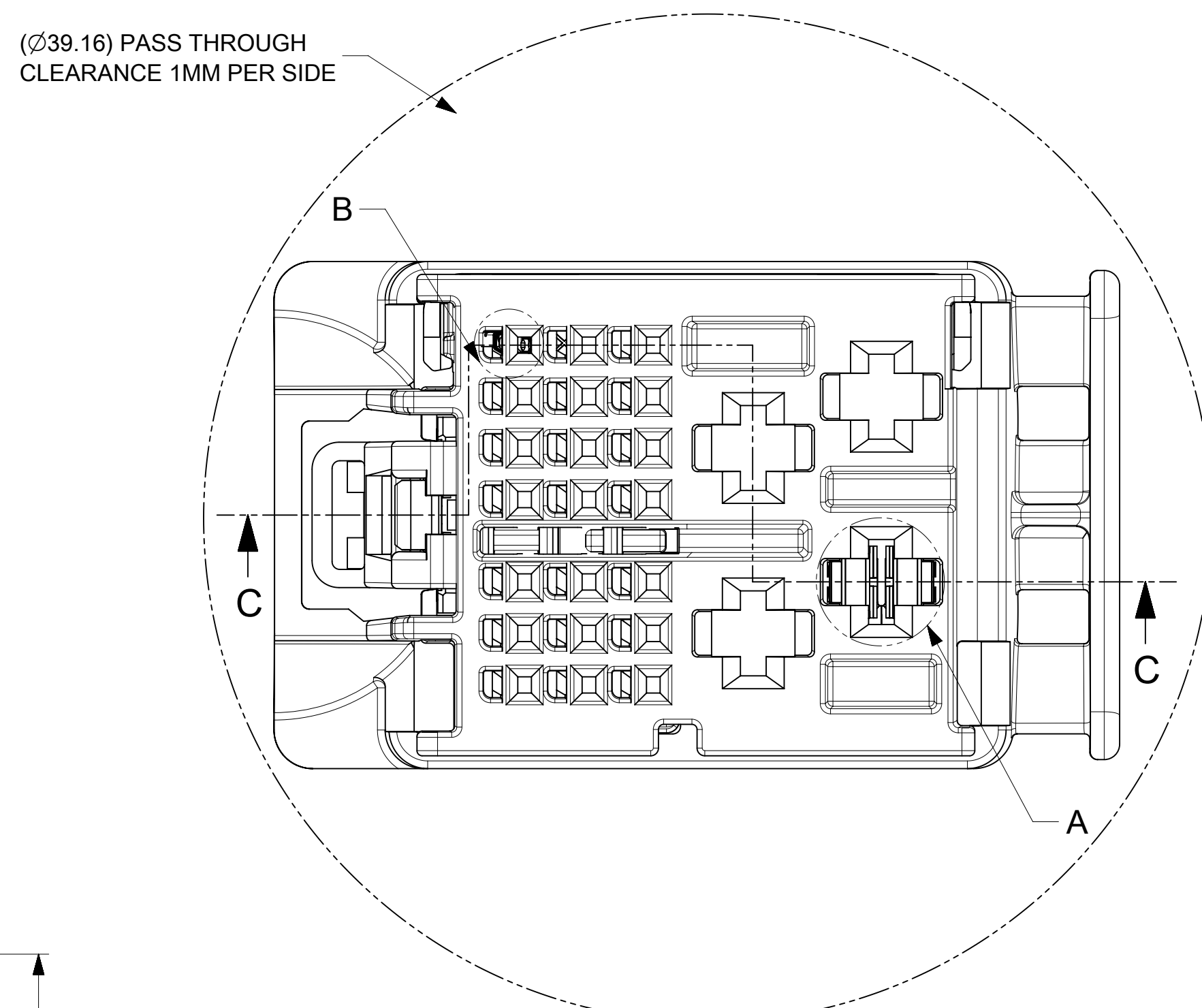
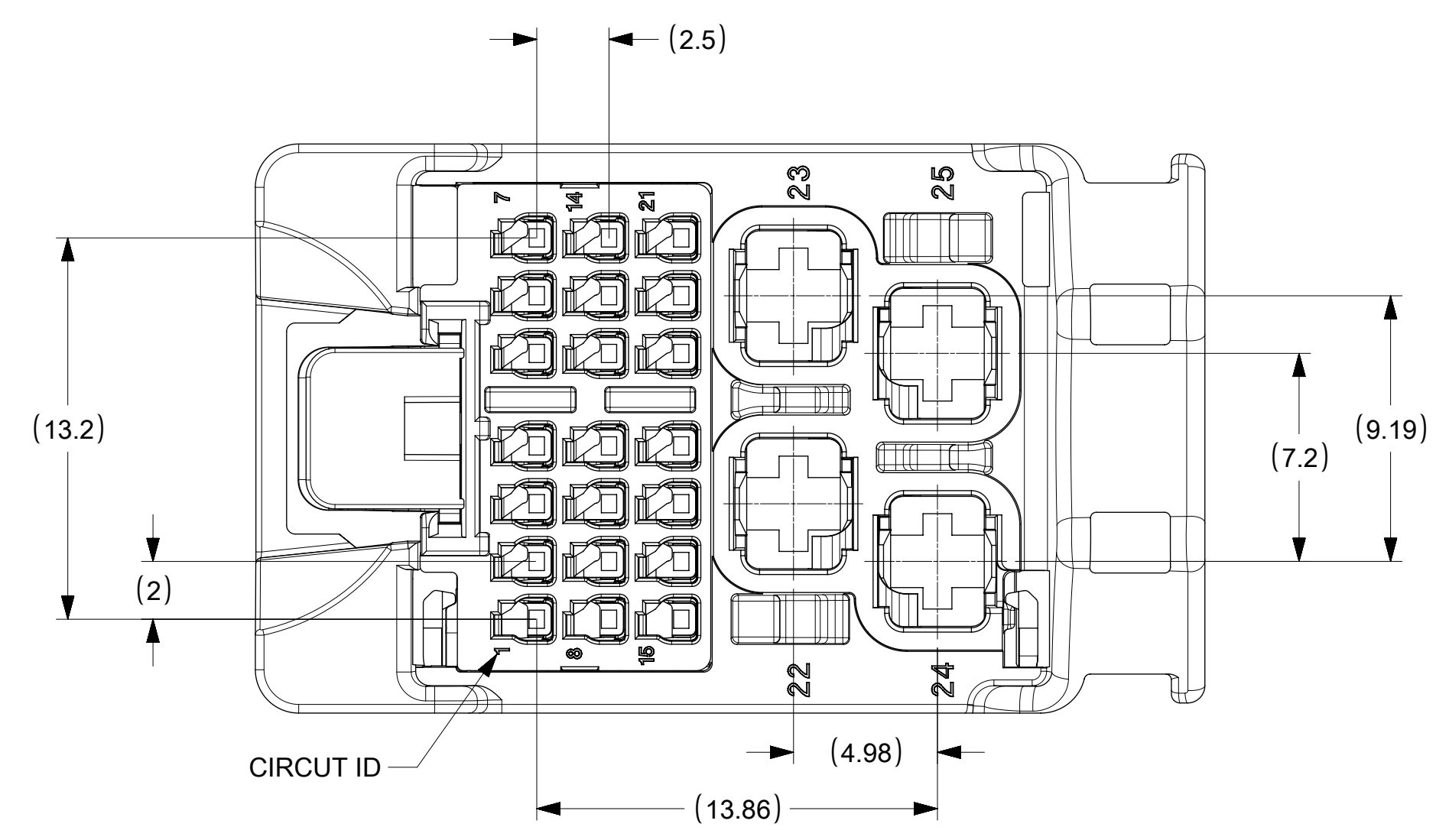
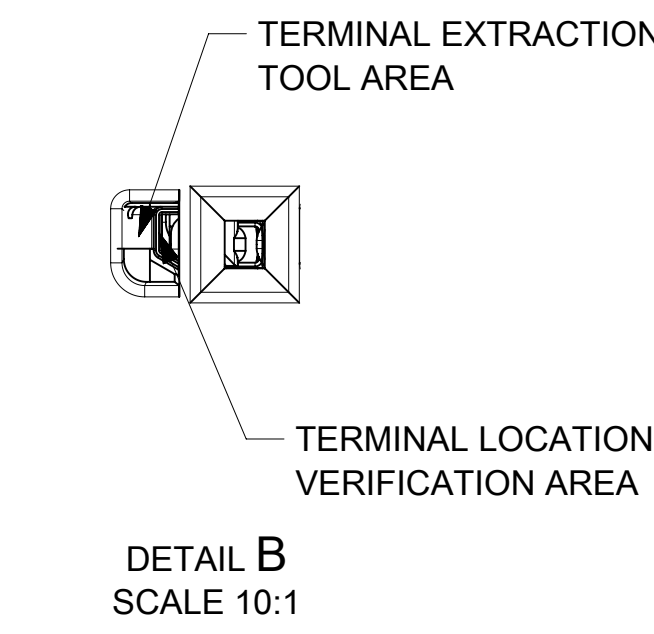
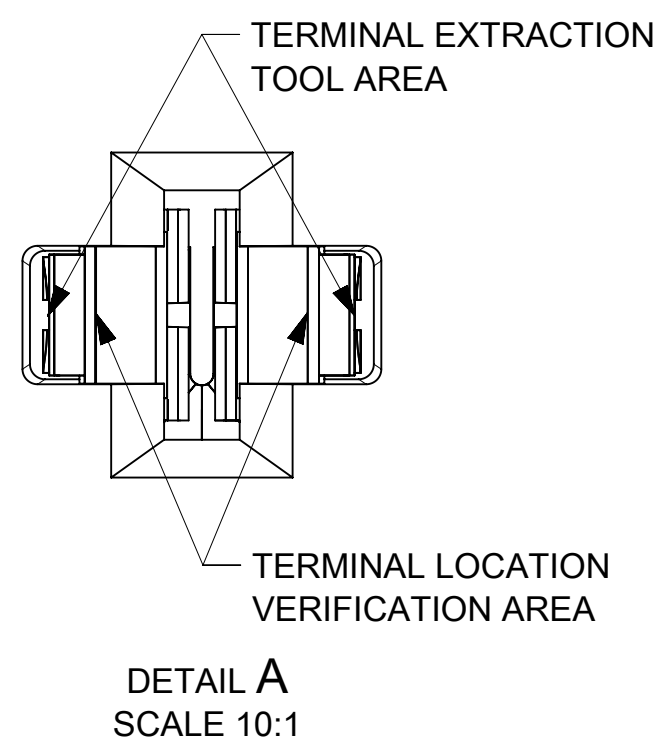
RIB OPTION A



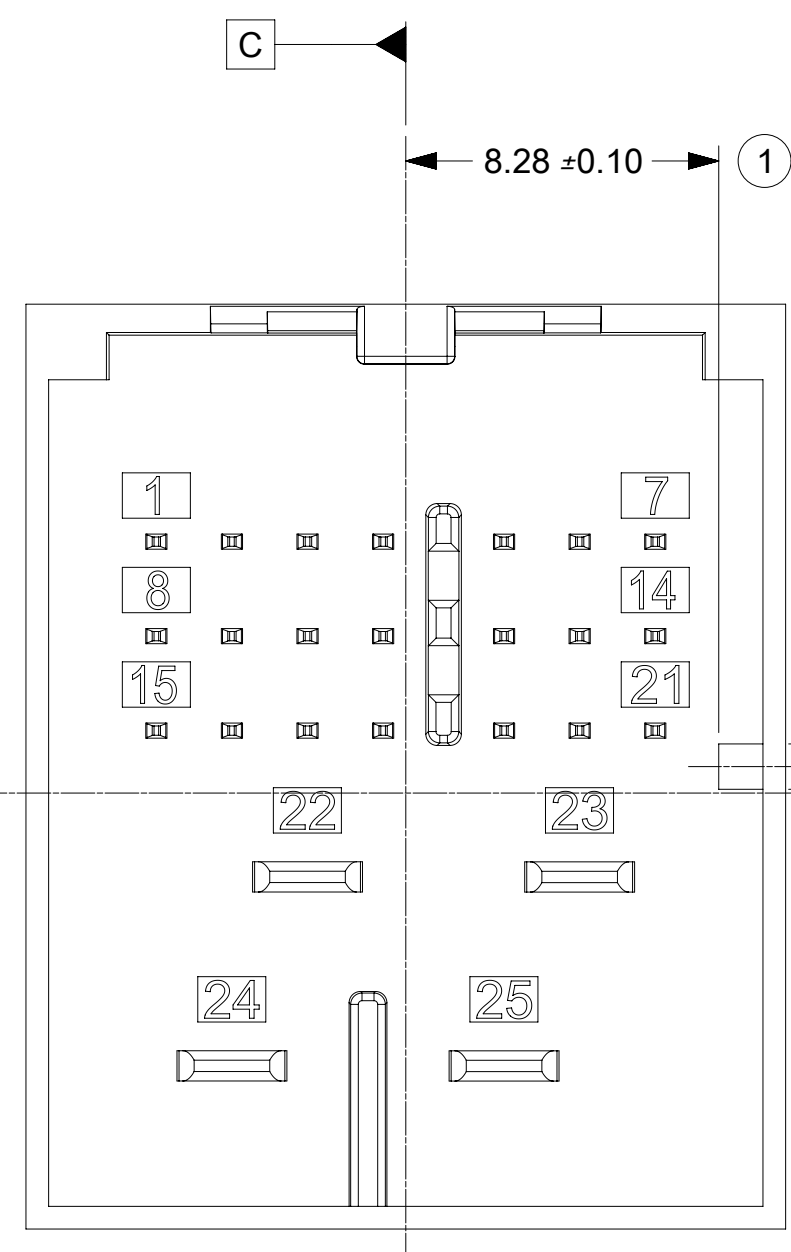
RIB OPTION B



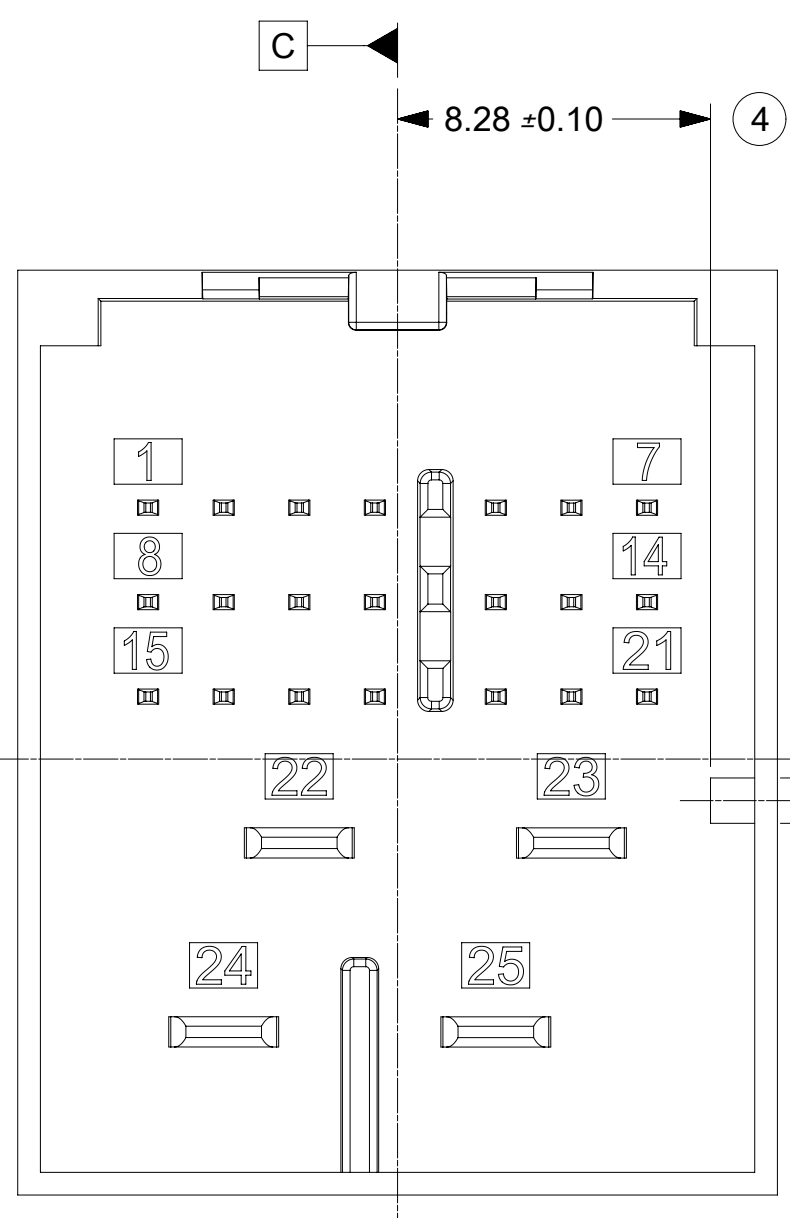
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: UPDATED 2.8 CAVITY VIEWS ON SHEET 2	
	DIMENSION UNITS	SCALE		
▽ = 0	mm			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			
▽ = 0	ANGULAR TOL ± 3.0°			
▽ = 0	4 PLACES	±		
▽ = 0	3 PLACES	±		
▽ = 0	2 PLACES	± 0.3		
▽ = 0	1 PLACE	± 0.3		
▽ = 0	0 PLACES	± 0.3		
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
▽ = 0	THIRD ANGLE PROJECTION		DRAWING SERIES	
		D-SIZE		160027
EC NO: 176550		2018/05/18		
DRWN: JCONDON		2018/07/26		
CHK'D: JCONDON		2018/07/26		
APPR: JCONDON		2018/07/26		
INITIAL REVISION:				
DRWN: VYARAPPA		2017/02/01		
APPR: KDEKOSKI		2017/03/23		
DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-160027-0001		PSD	000	B1
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
		GENERAL MARKET		1 OF 2



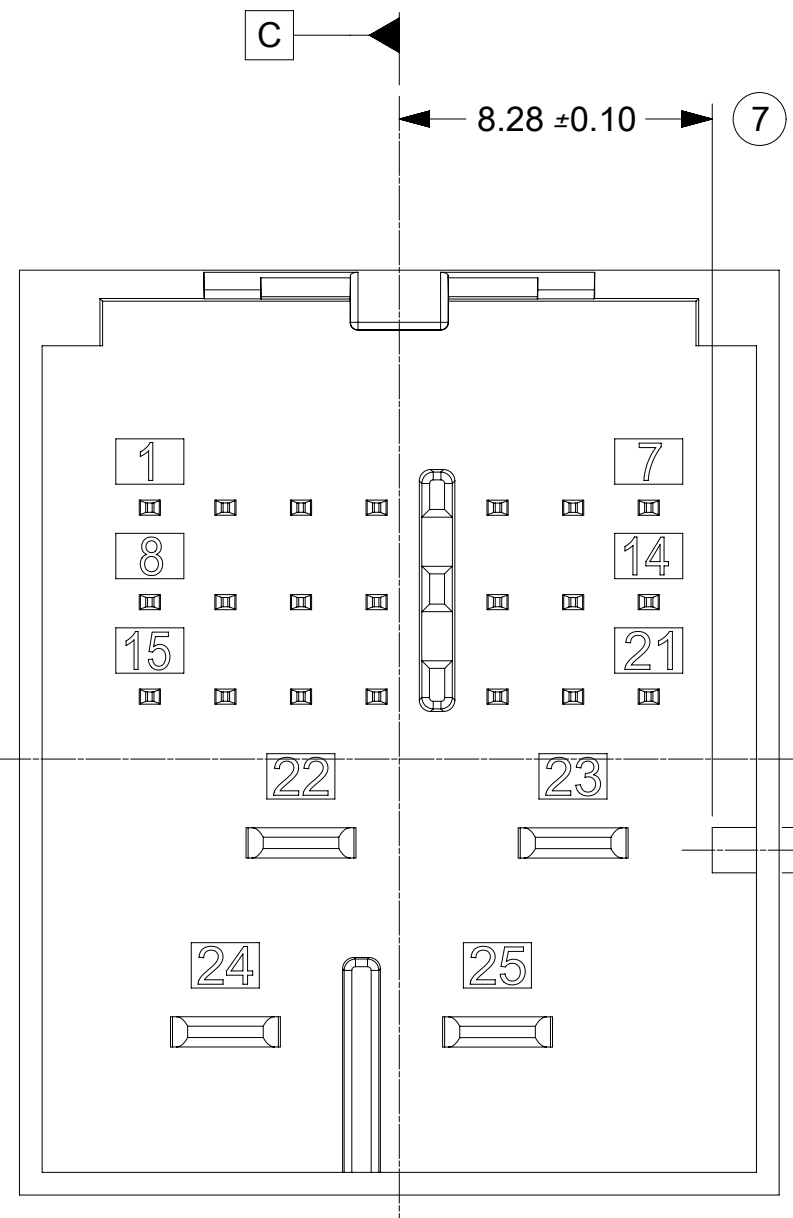
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
▽ = 0	mm	DIMENSION UNITS	SCALE
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	CURRENT REV DESC: UPDATED 2.8 CAVITY VIEWS ON SHEET 2	
▽ = 0	ANGULAR TOL ± 3.0°	EC NO: 176550	
▽ = 0	4 PLACES ±	DRWN: JCONDON	2018/05/18
▽ = 0	3 PLACES ±	CHK'D: JCONDON	2018/07/26
▽ = 0	2 PLACES ± 0.3	APPR: JCONDON	2018/07/26
▽ = 0	1 PLACE ± 0.3	INITIAL REVISION:	
▽ = 0	0 PLACES ± 0.3	DRWN: VYARAPPA	2017/02/01
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPR: KDEKOSKI	2017/03/23
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
▽ = 0	D-DRAWING	D-SIZE	160027
DOCUMENT NUMBER		DOC TYPE	DOC PART
SD-160027-0001		PSD	000
REVISION		B1	
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
GENERAL MARKET		2 OF 2	



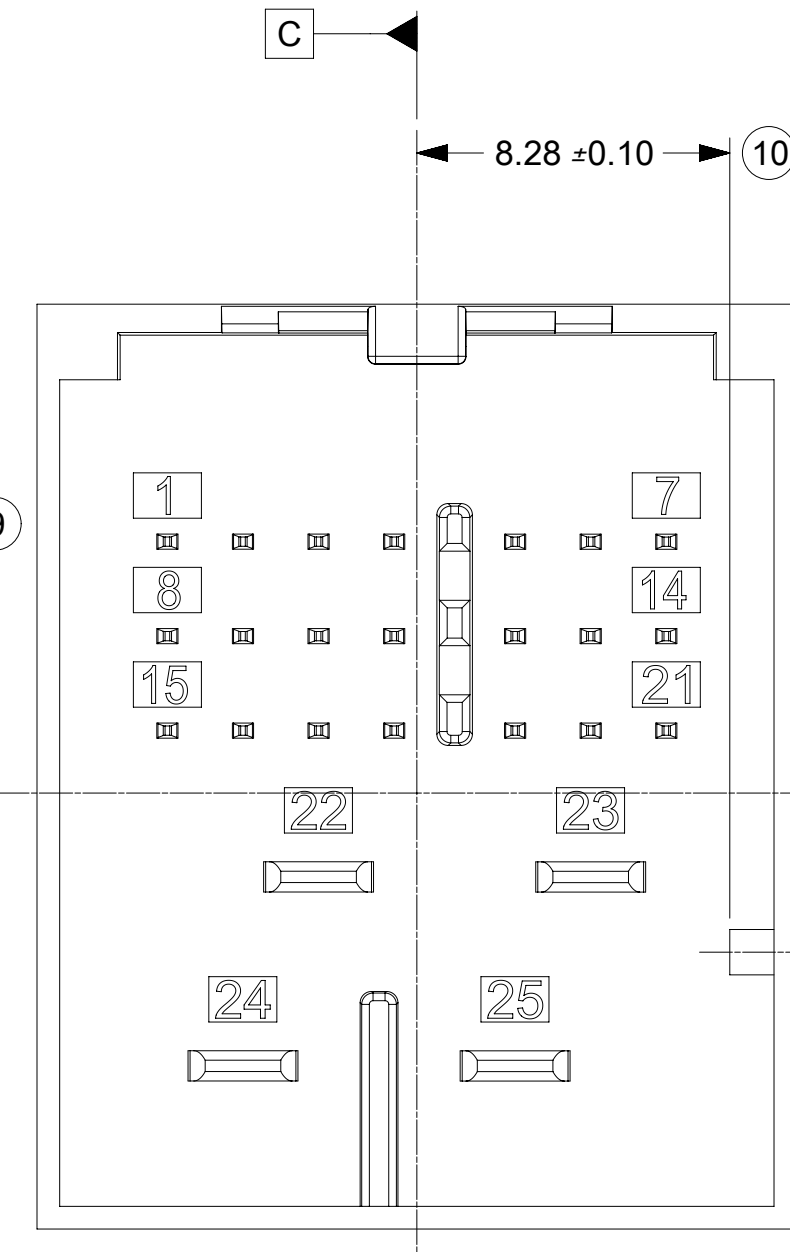
INTERFACE KEY 1 & KEY 5



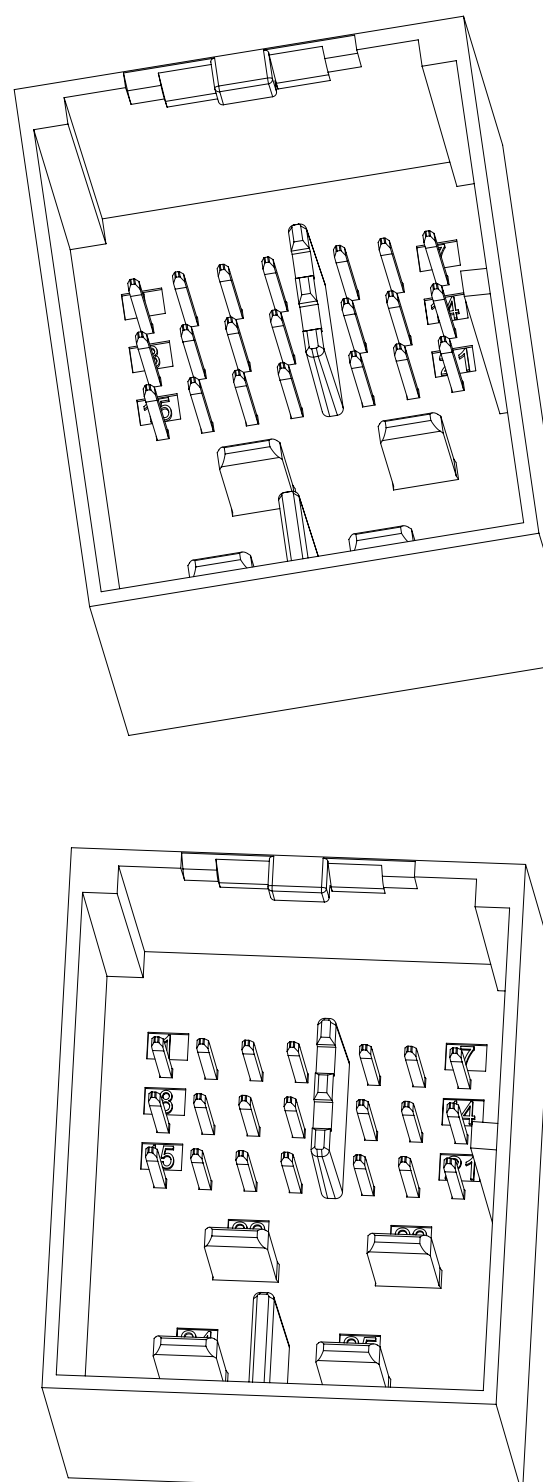
INTERFACE KEY 2 & KEY 6



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

1. DESIGN - MATERIALS:

- a. RESIN MATERIAL : PBT+GF30 OR SPS+GF30 OR EQUIVALENT
- b. PIN/BLADE MATERIAL : ACCORDING TO USCAR DRAWING EWCAP-001 NOTE B2
- c. PLATING: ACCORDING TO USCAR DRAWING EWCAP-001 TIN REFLOW WITH UNDERPLATE
- d. PIN TIPS ACCORDING TO USCAR DRAWING EWCAP-001 (050-T001 & 280-T001)
- e. DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE (ELECTRICAL/MECHANICAL) IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.
- Ⓢ 1. DEVIATION TO TIN PLATING THICKNESS AS NECESSARY TO MEET MATING FORCE AND ALL VALIDATION REQUIREMENTS

2. DRAWING - GEOMETRY:

- a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009.
- c. GENERAL TOLERANCES:
 LINEAR : PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING
 ANGULAR : ±3°
- d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- e. CORNERS SHOW AS SHARP TO BE R 0.2 MAX.
- f. 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.

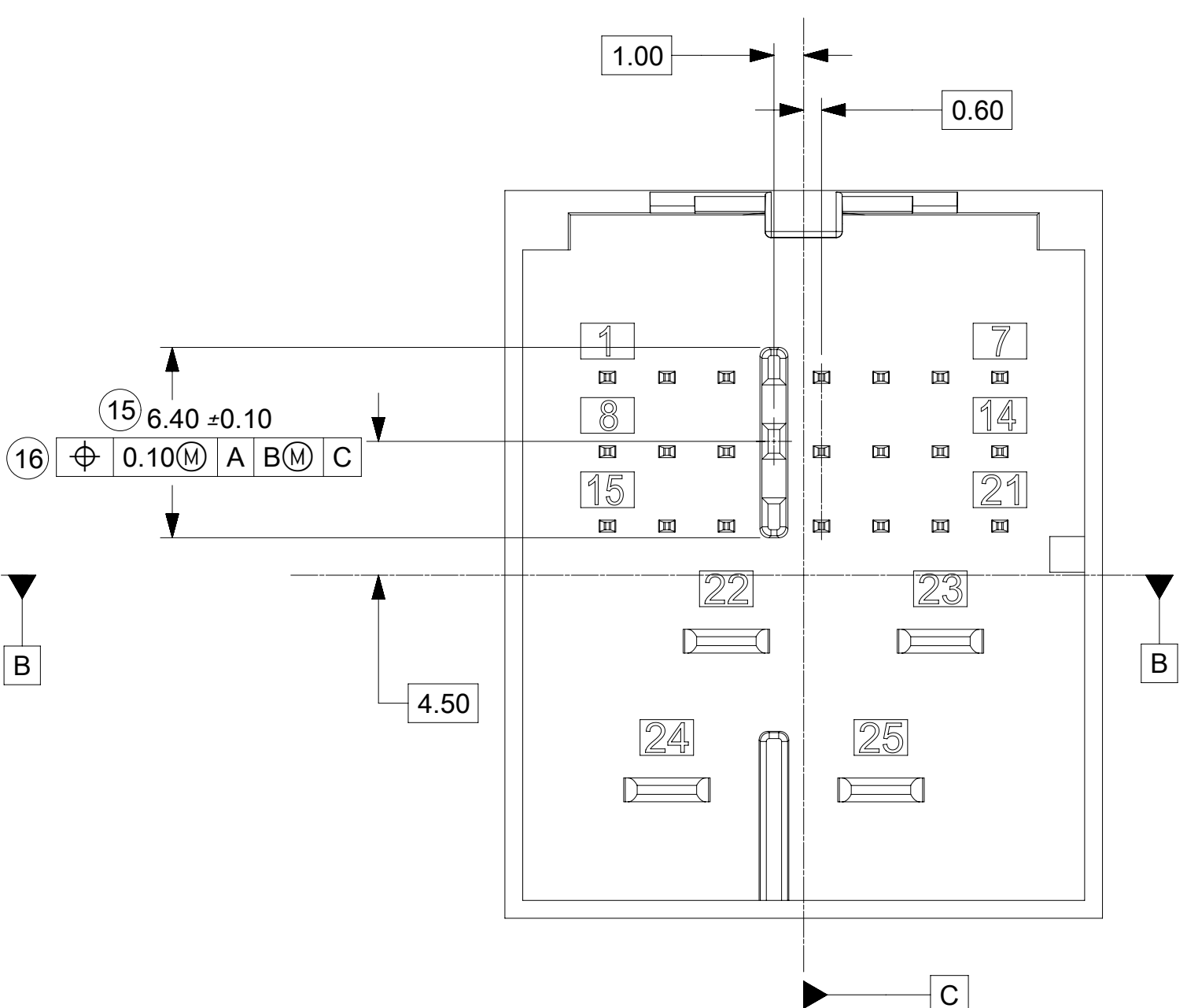
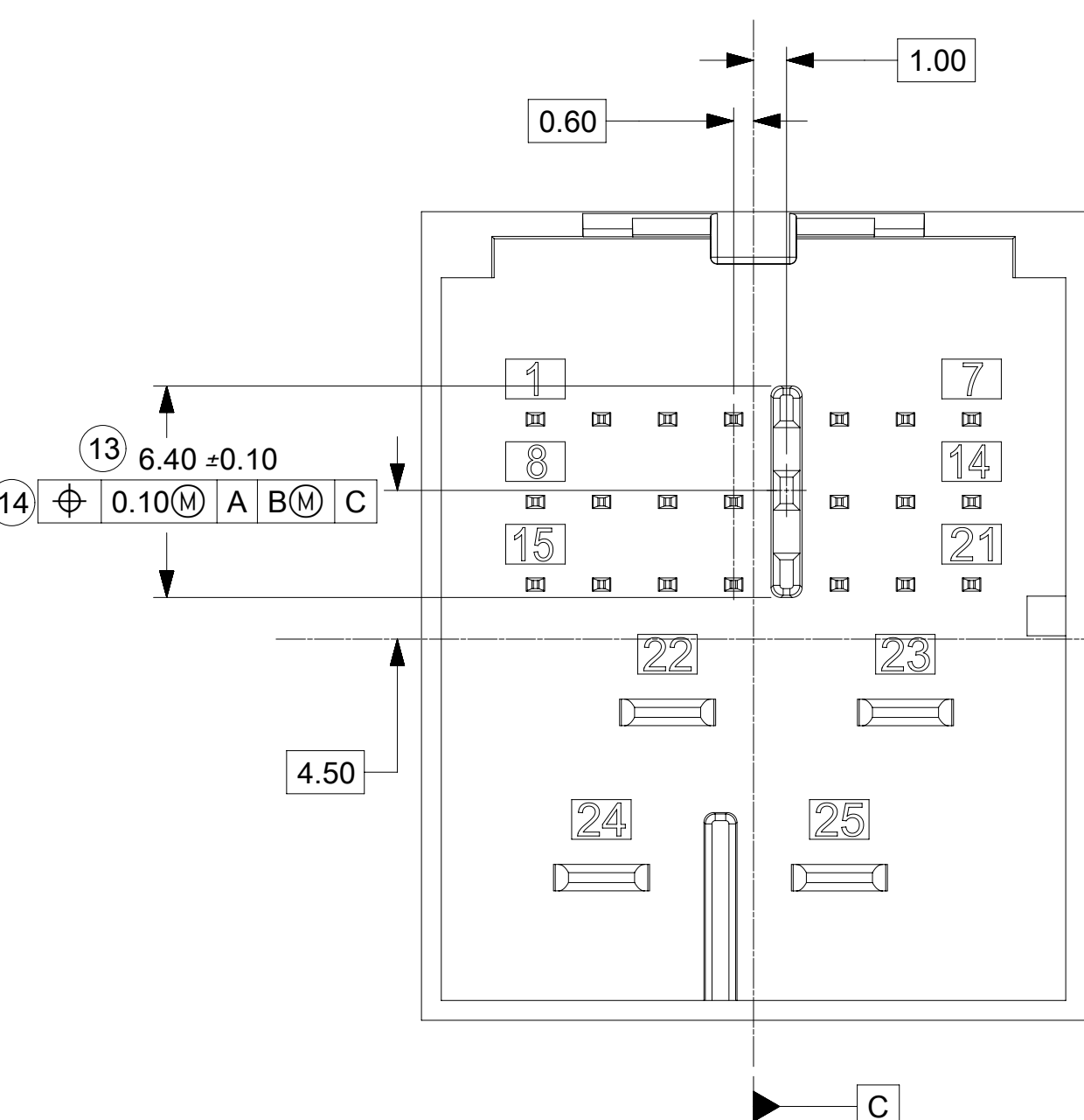
3. DESIGN - MANUFACTURING:

- a. DRAFT TO BE WITHIN TOLERANCE.

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

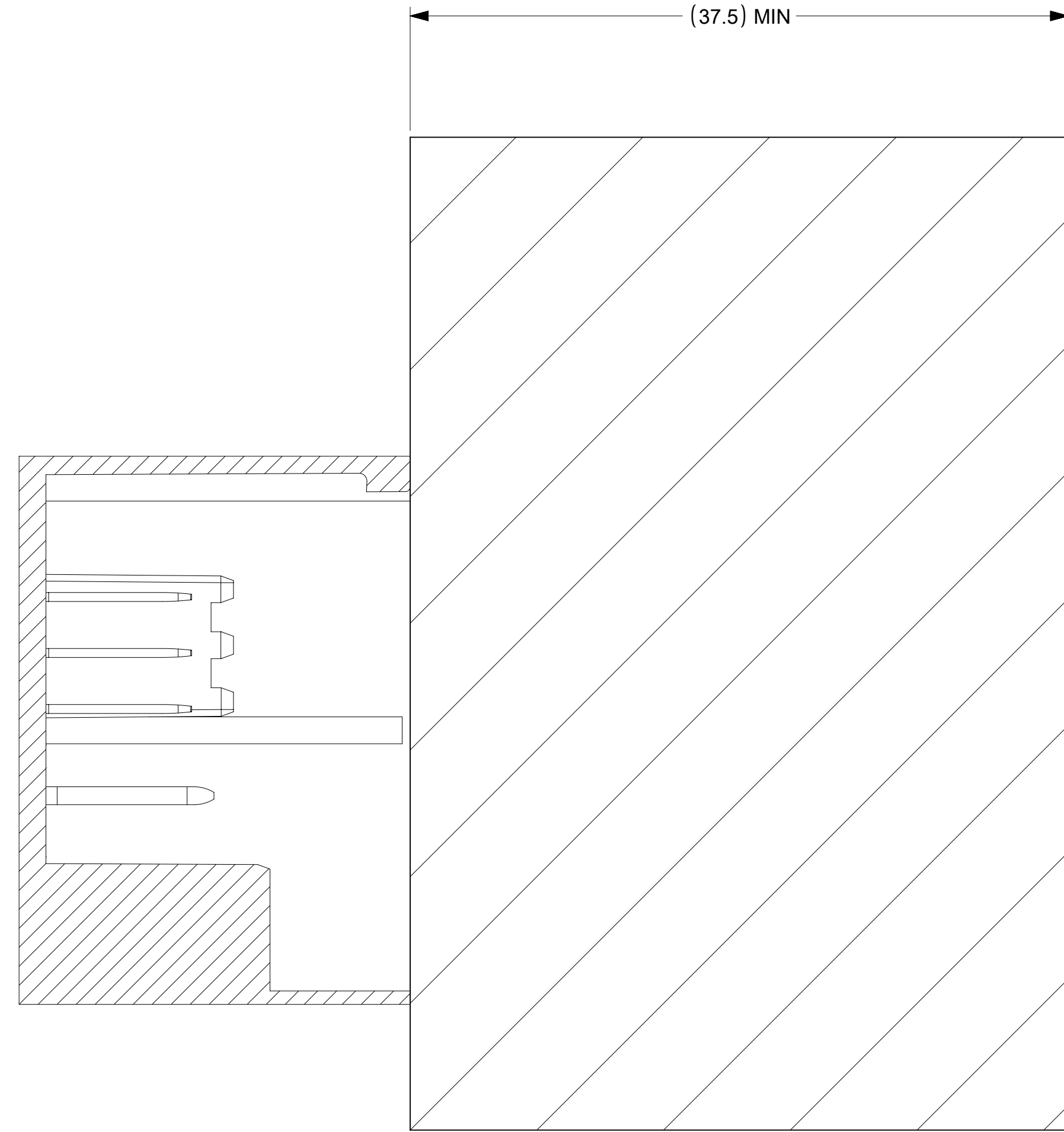
RIB OPTION A

RIB OPTION B

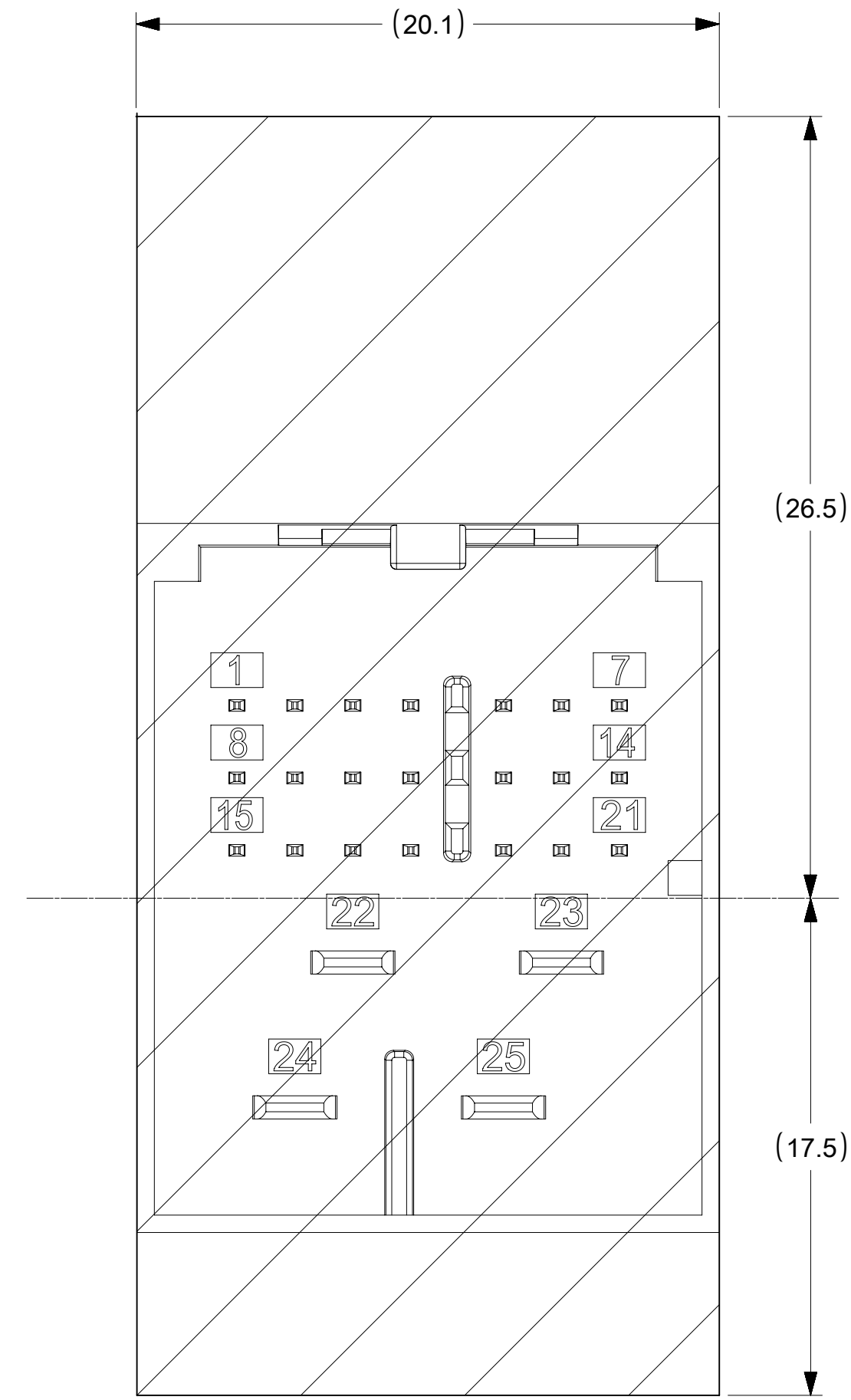


SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
▽ = 0	mm	CURRENT REV DESC: ADDED 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
▽ = 0	ANGULAR TOL ± °	
▽ = 0	4 PLACES	EC NO: 626144
▽ = 0	3 PLACES	DRWN: JCONDON 2019/09/19
▽ = 0	2 PLACES	CHK'D: DLANGOLF 2019/10/22
▽ = 0	1 PLACE	APPR: JCONDON 2019/10/23
▽ = 0	0 PLACES	INITIAL REVISION:
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
THIRD ANGLE PROJECTION	DRAWING	SERIES
⊕	D-SIZE	160027
DOCUMENT NUMBER		DOC TYPE
SD-160027-002		PSD
DOC PART		REVISION
000		C
MATERIAL NUMBER		CUSTOMER
GENERAL MARKET		SHEET NUMBER
		1 OF 3

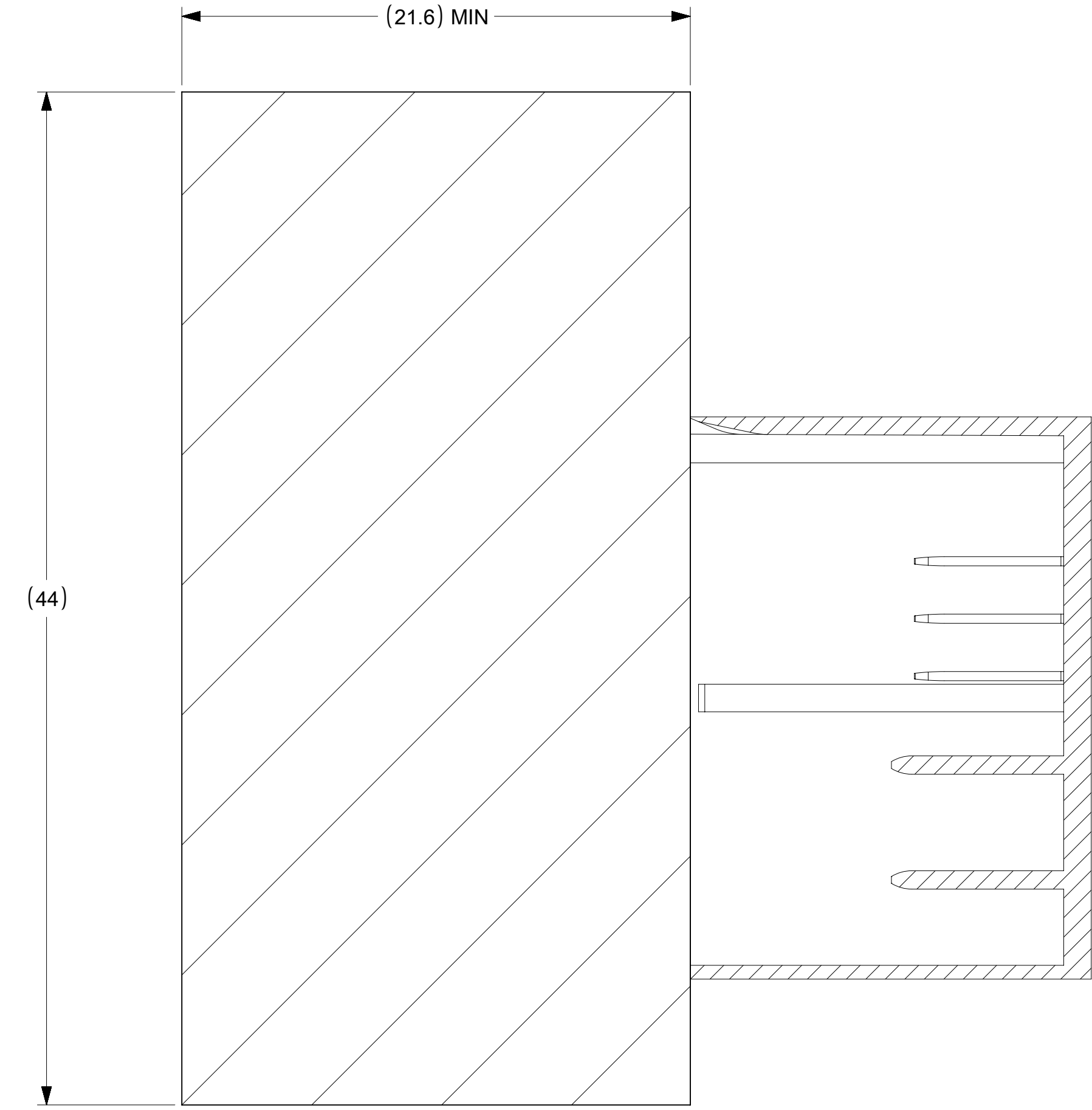
PACKAGE SPACE
FOR UNMATED
CONNECTOR



PACKAGE SPACE
FOR CONNECTOR



PACKAGE SPACE FOR
MATED CONNECTOR
WITH COVER



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 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1
$\nabla = 0$	mm		molex 25WAY STAK50H INTERFACE DRAWING PRODUCT CUSTOMER DRAWING
$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		
$\nabla = 0$	ANGULAR TOL	\pm	EC NO: 626144 DRWN: JCONDON 2019/09/19 CHK'D: DLANGOLF 2019/10/22 APPR: JCONDON 2019/10/23
$\nabla = 0$	4 PLACES	\pm	INITIAL REVISION: DRWN: SPEMMARAJU 2015/11/03 APPR: KDEKOSKI 2016/03/24
$\nabla = 0$	3 PLACES	\pm	
$\nabla = 0$	2 PLACES	\pm	DOCUMENT NUMBER SD-160027-002 DOC TYPE PSD DOC PART 000 REVISION C
$\nabla = 0$	1 PLACE	\pm	
$\nabla = 0$	0 PLACES	\pm	MATERIAL NUMBER CUSTOMER GENERAL MARKET SHEET NUMBER 3 OF 3
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
$\nabla = 0$	THIRD ANGLE PROJECTION	DRAWING	SERIES D-SIZE 160027