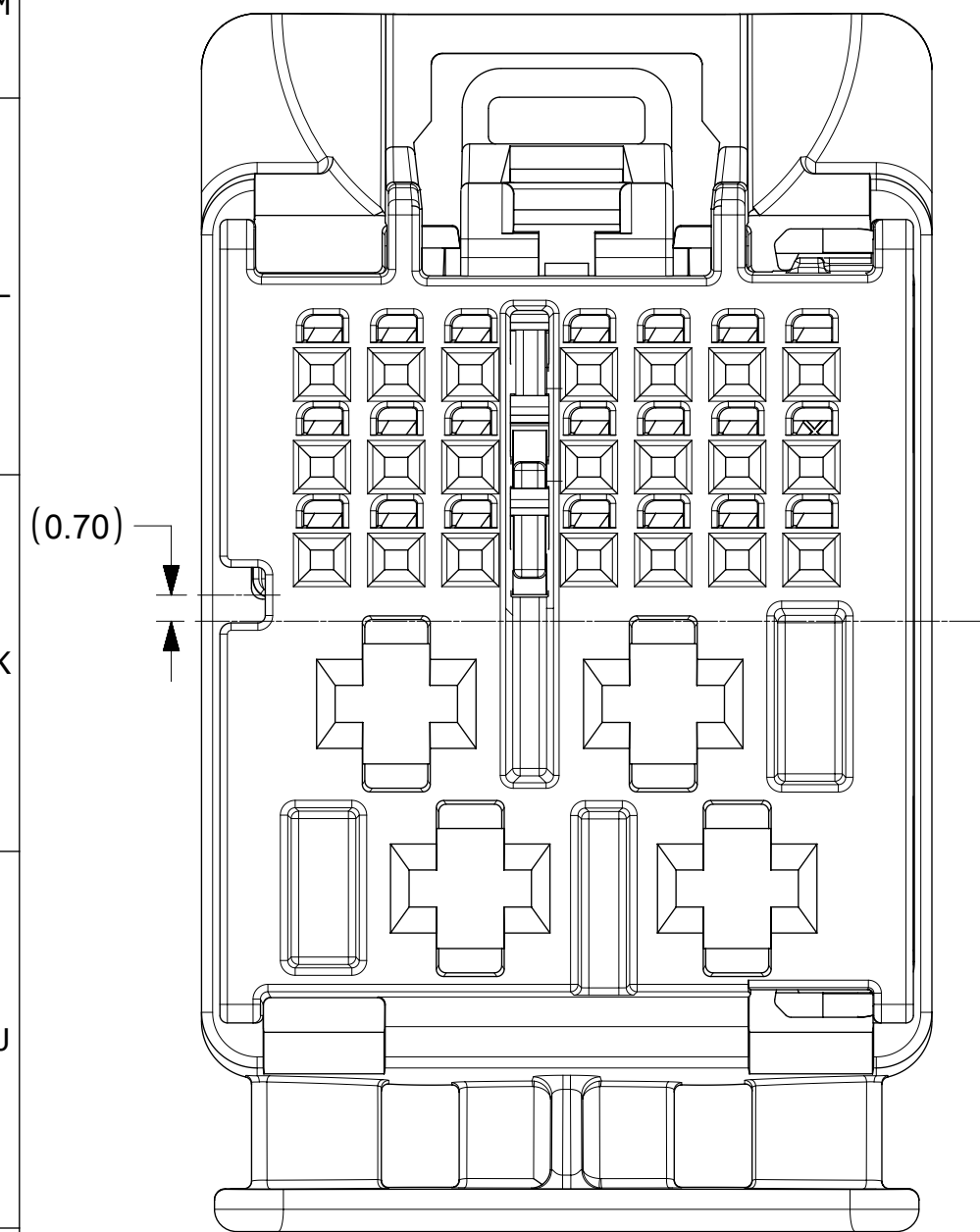
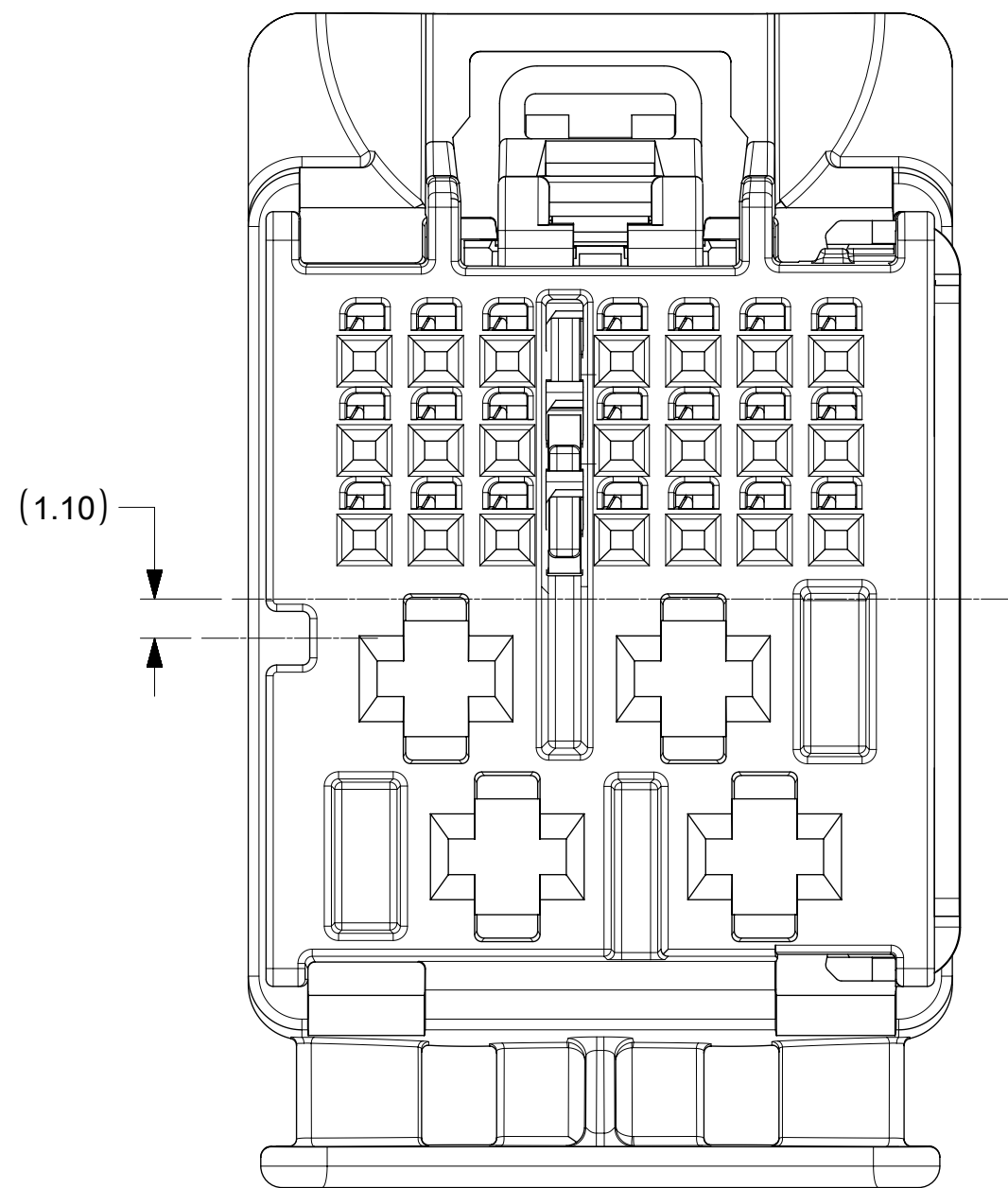


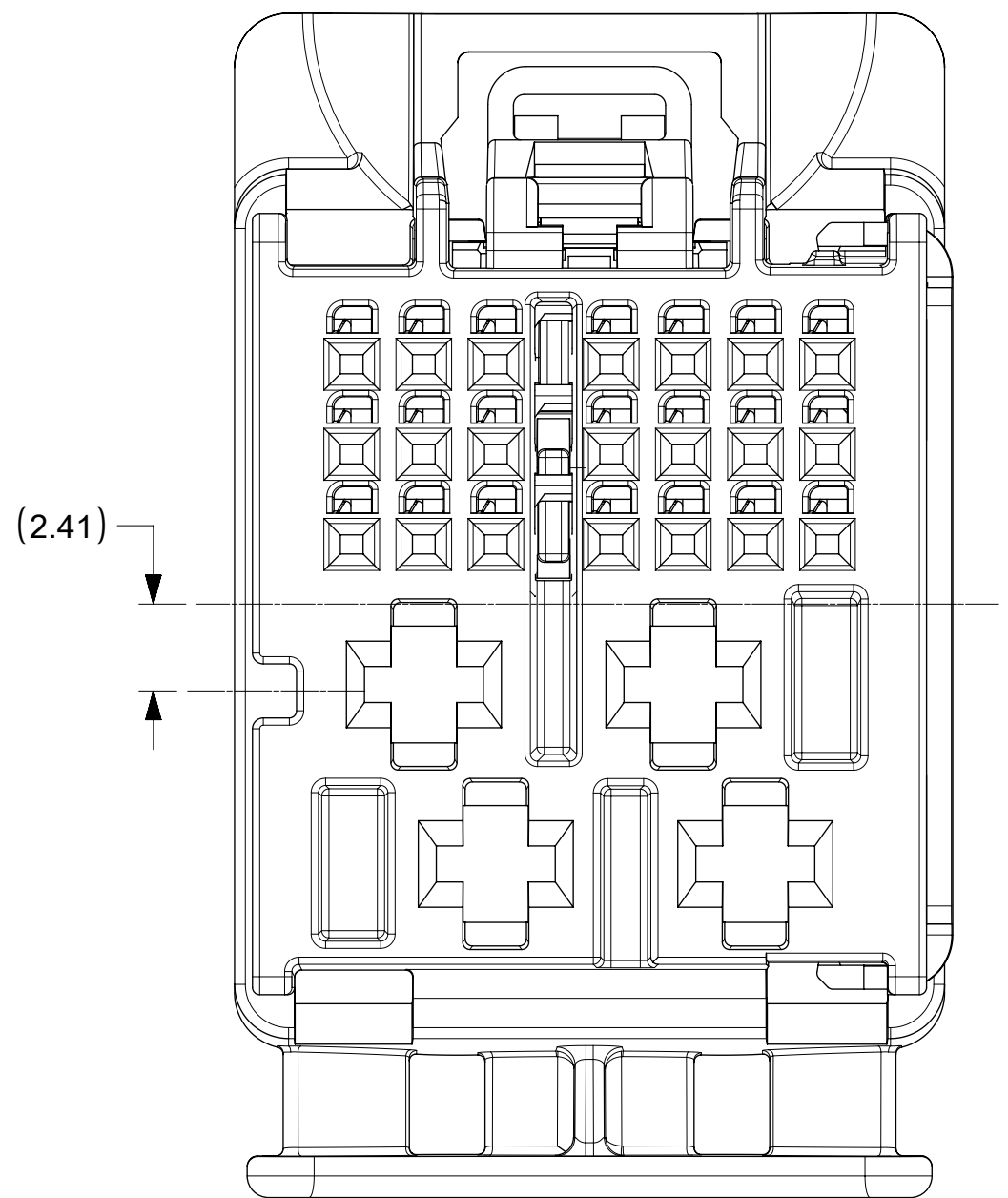


25WAY CONNECTOR ASSEMBLY KEY 1 & KEY 5

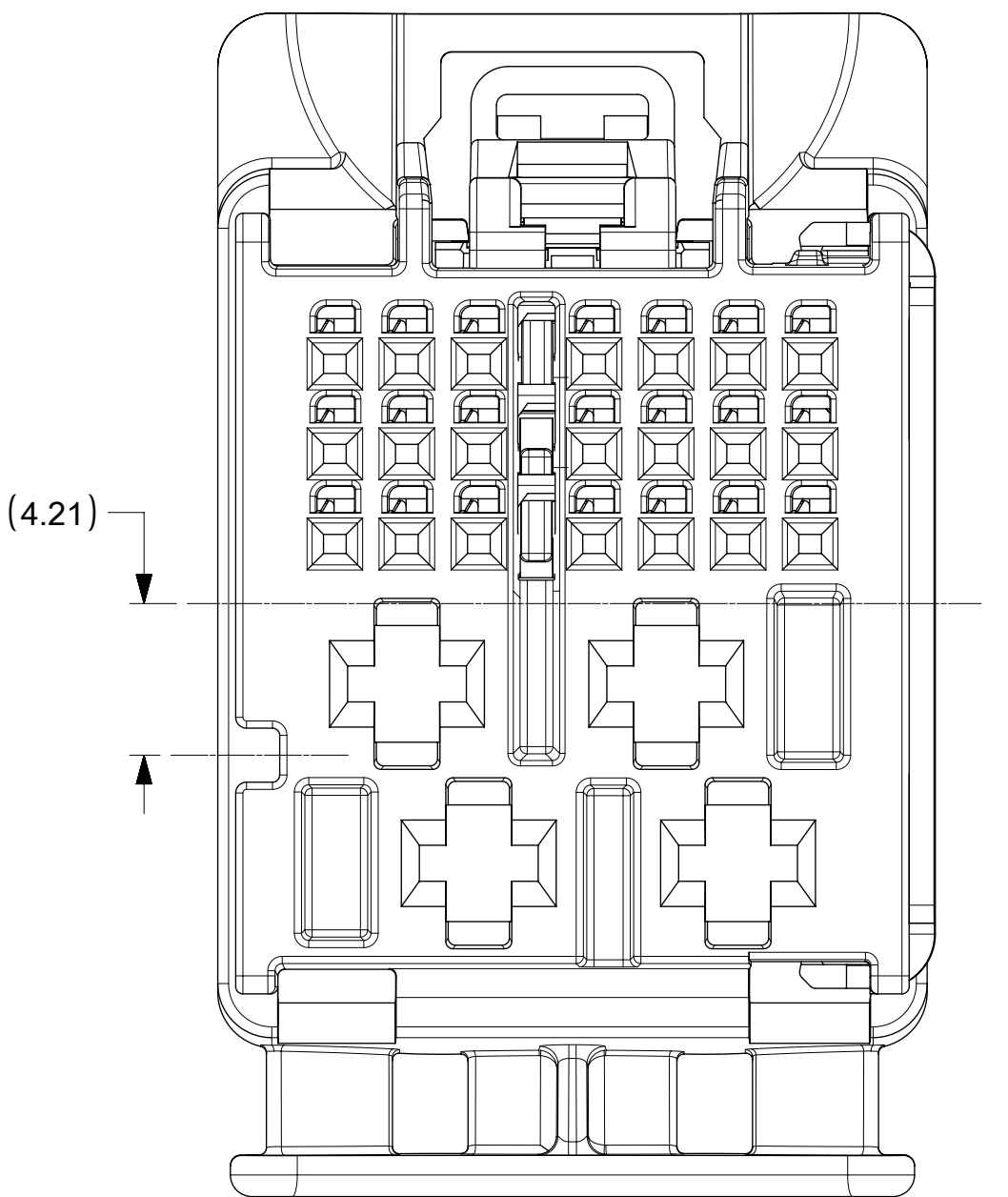
PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
200096-0101	TIN PLATING	MOLEX	0.35	TAK FAMILY (0.5 mm)	VW 60306 OR GMW 15626 (SEE APPLICATION SPECIFICATION FOR MORE DETAILS)
200096-0201	TIN PLATING	MOLEX	0.13	TAK FAMILY (0.5 mm)	
2272196-2	TIN PLATING	TE	0.35	Generation 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	
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	



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:

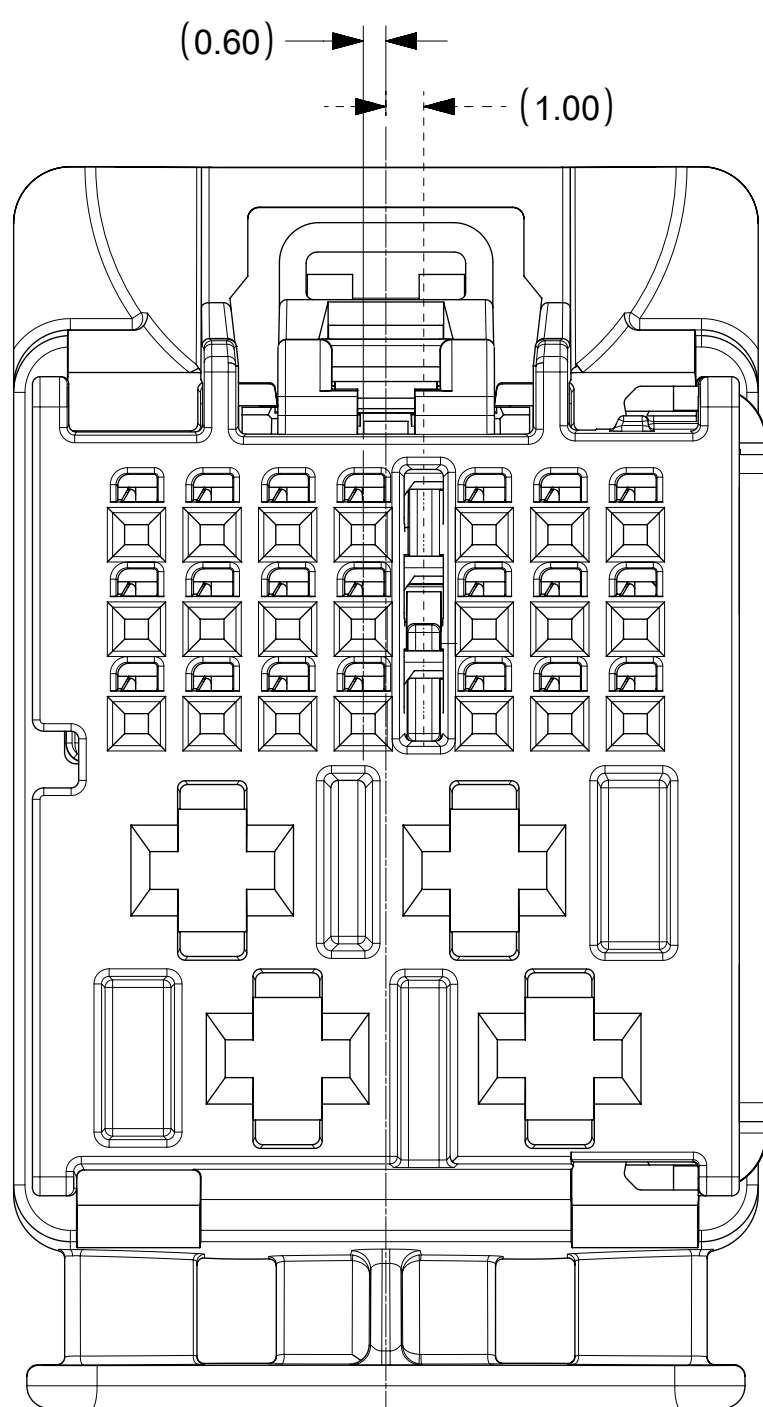
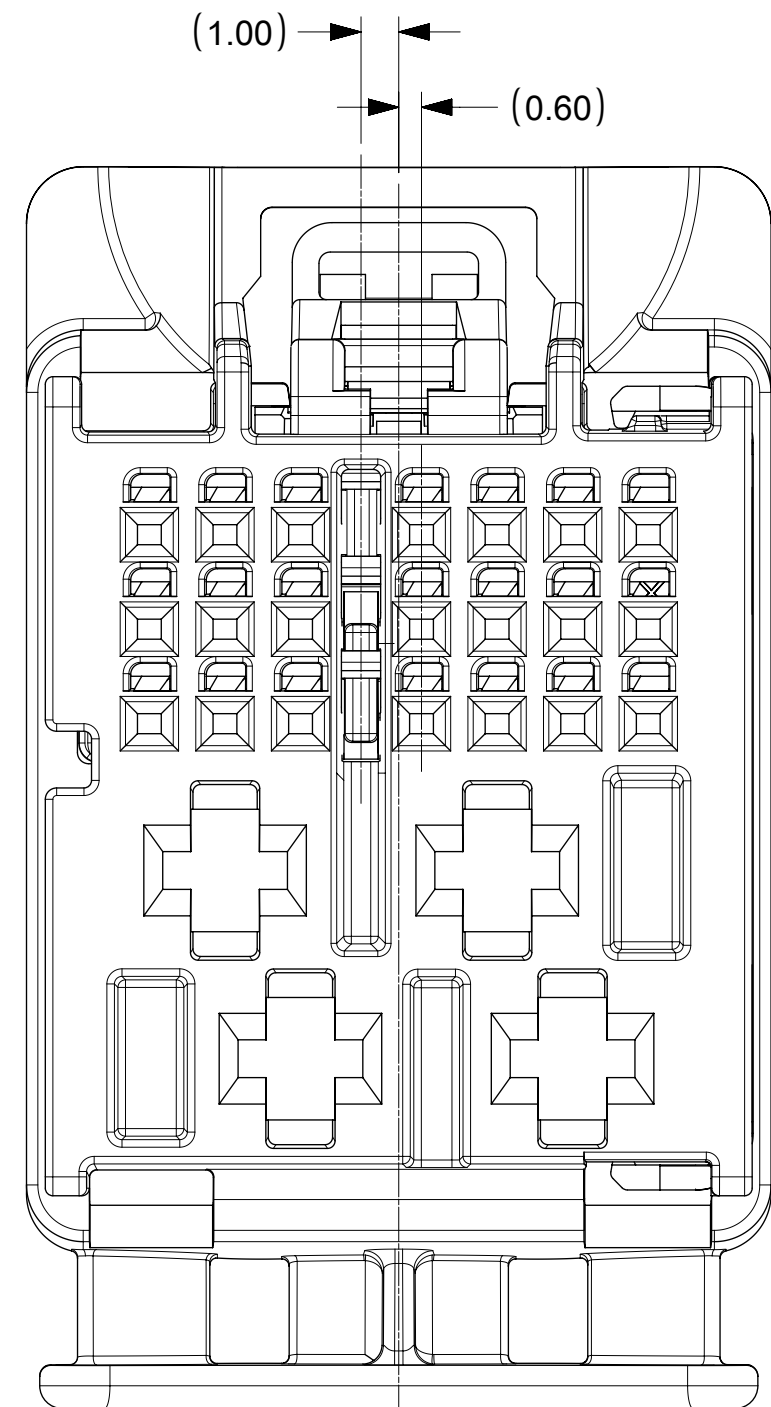
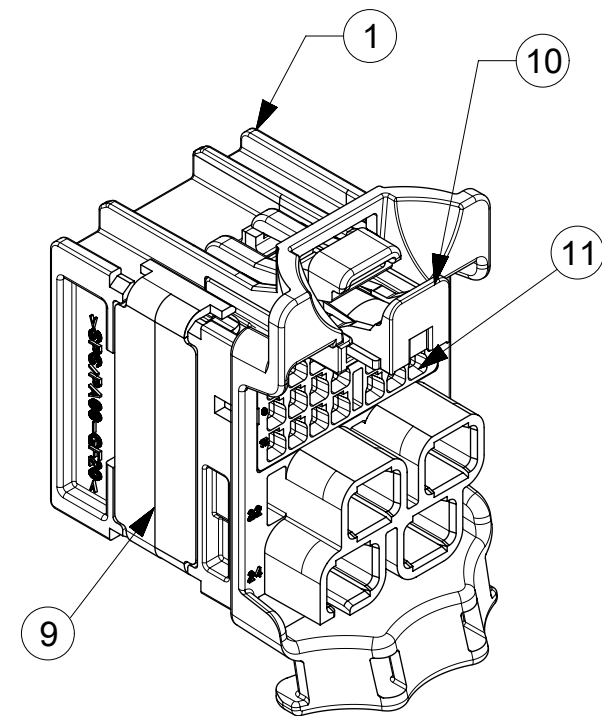
- a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
 - b. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
 - c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
 - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - e. CORNERS SHOWN AS SHARP 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:

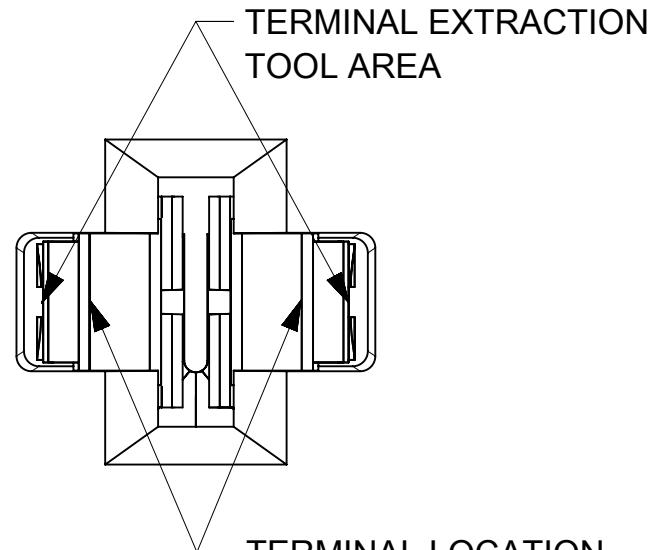
- a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

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	
10	CPA	NATURAL	PA66-GF50	0.08	N/A	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	



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: UPDATED 2.8 CAVITY VIEWS ON SHEET 2				molex 25WAY STAK50H HYBRID CONNECTOR ASSEMBLY							
	mm														
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 176550 DRWN: JCONDON 2018/05/18 CHK'D: JCONDON 2018/07/26 APPR: JCONDON 2018/07/26											
 = 0	ANGULAR TOL ± 3.0°														
 = 0	4 PLACES		±	INITIAL REVISION: DRWN: VYARAPPA 2017/02/01 APPR: KDEKOSKI 2017/03/23				PRODUCT CUSTOMER DRAWING							
 = 0	3 PLACES		±												
 = 0	2 PLACES		± 0.3	DOCUMENT NUMBER SD-160027-0001				DOC TYPE PSD		DOC PART 000	REVISION B1				
 = 0	1 PLACE		± 0.3												
 = 0	0 PLACES		± 0.3	MATERIAL NUMBER				CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 2					
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
 = 0	THIRD ANGLE PROJECTION			DRAWING D-SIZE		SERIES 160027									



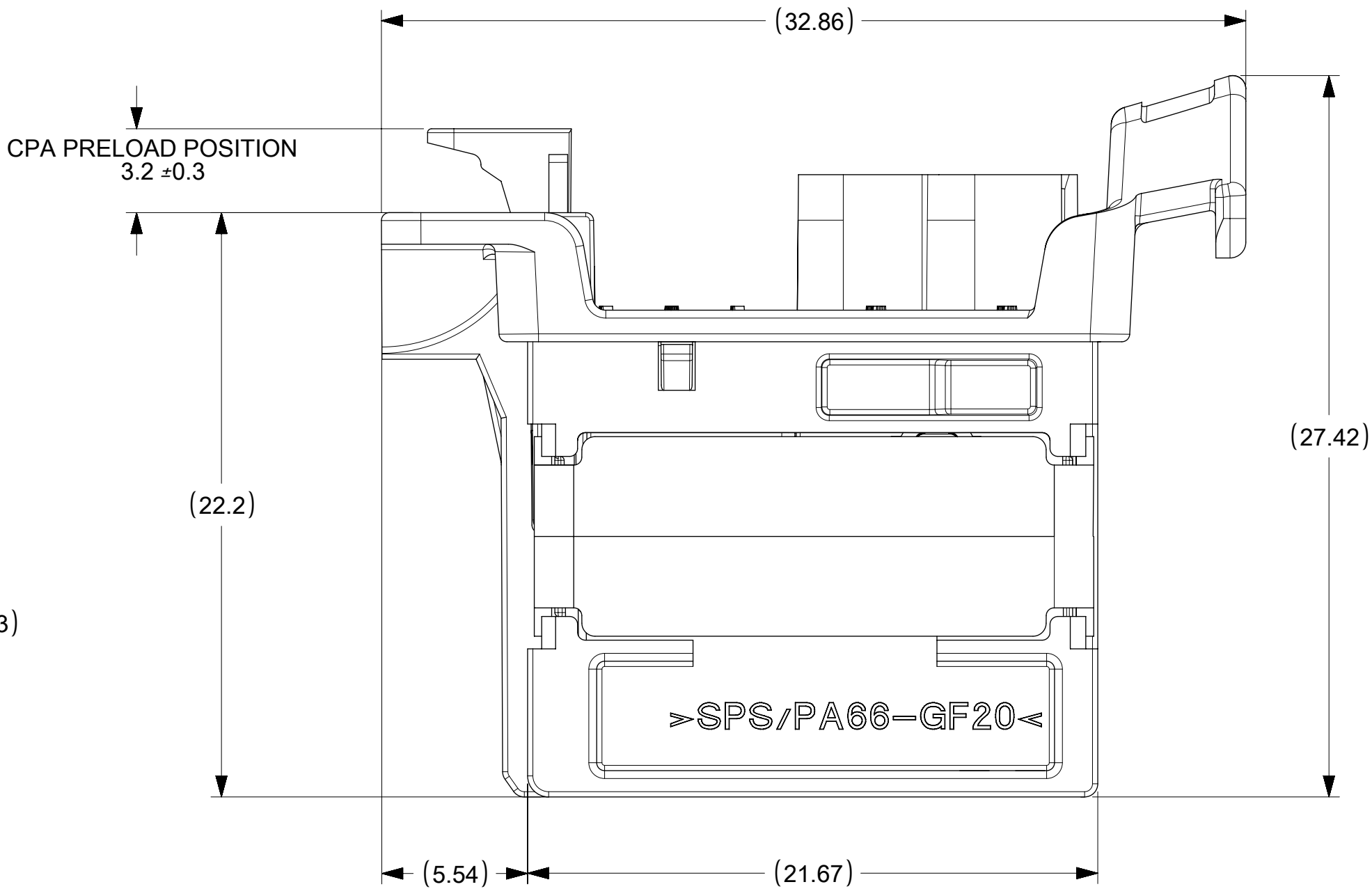
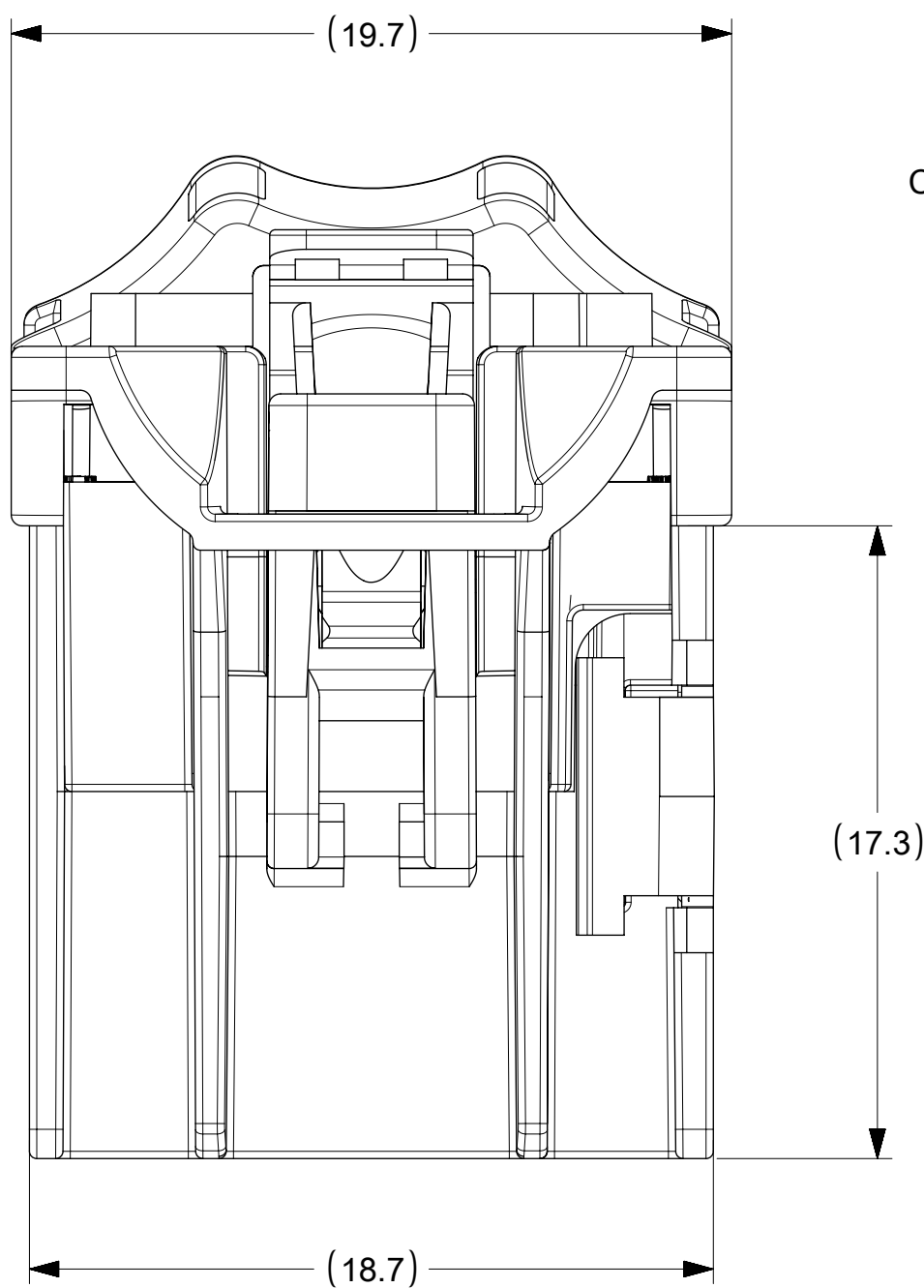
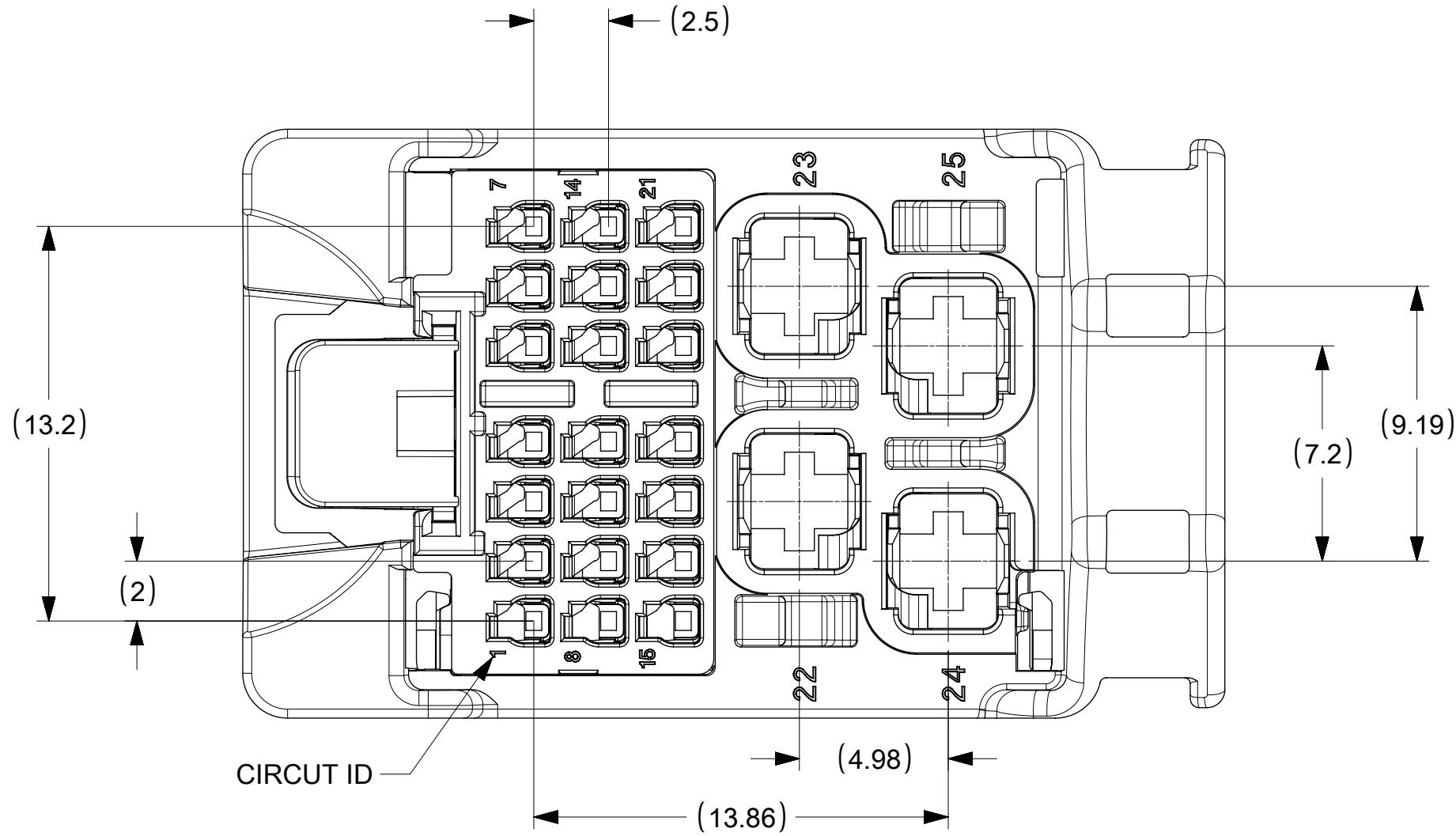
TERMINAL LOCATION
VERIFICATION AREA

DETAIL A
SCALE 10:1

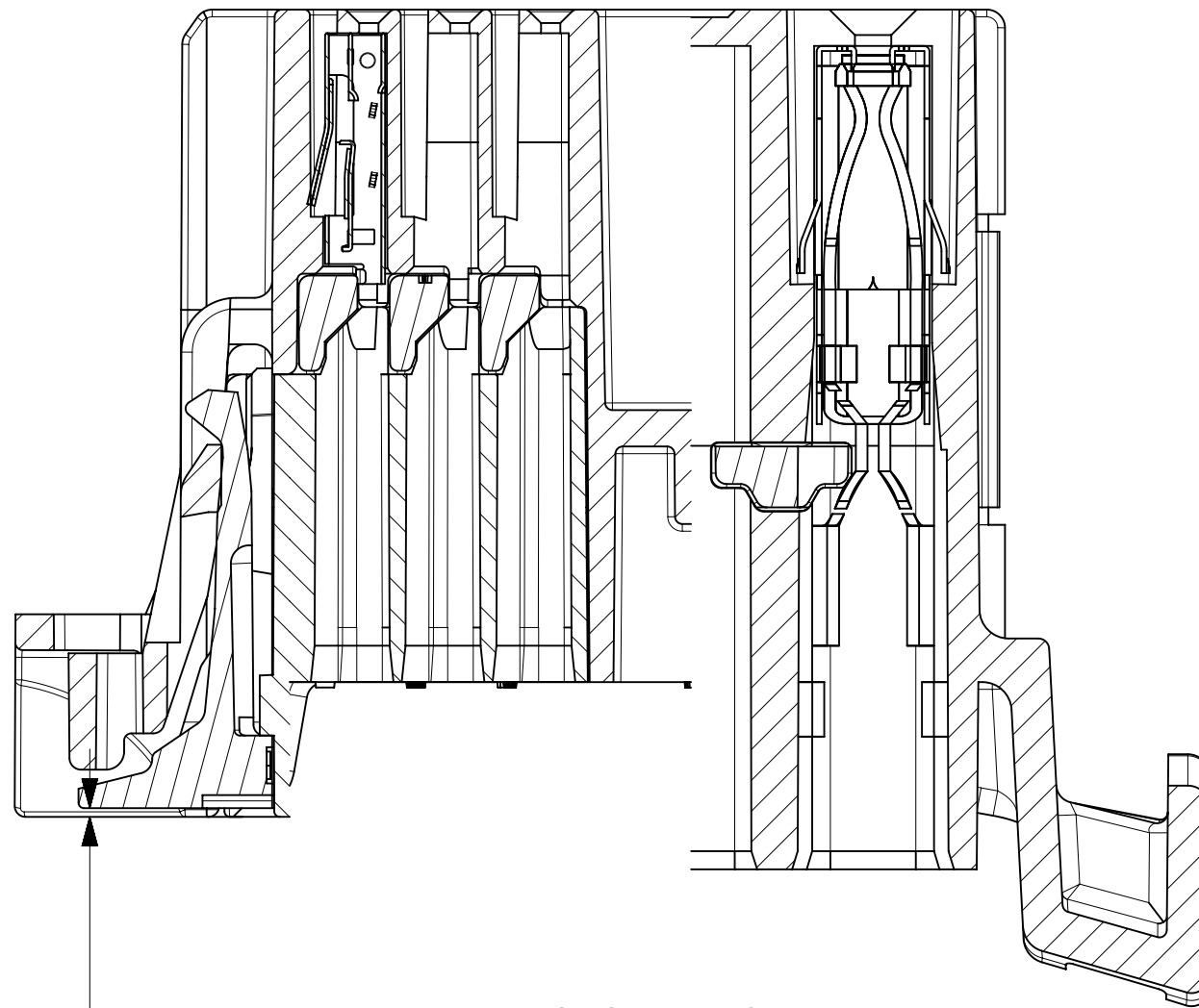
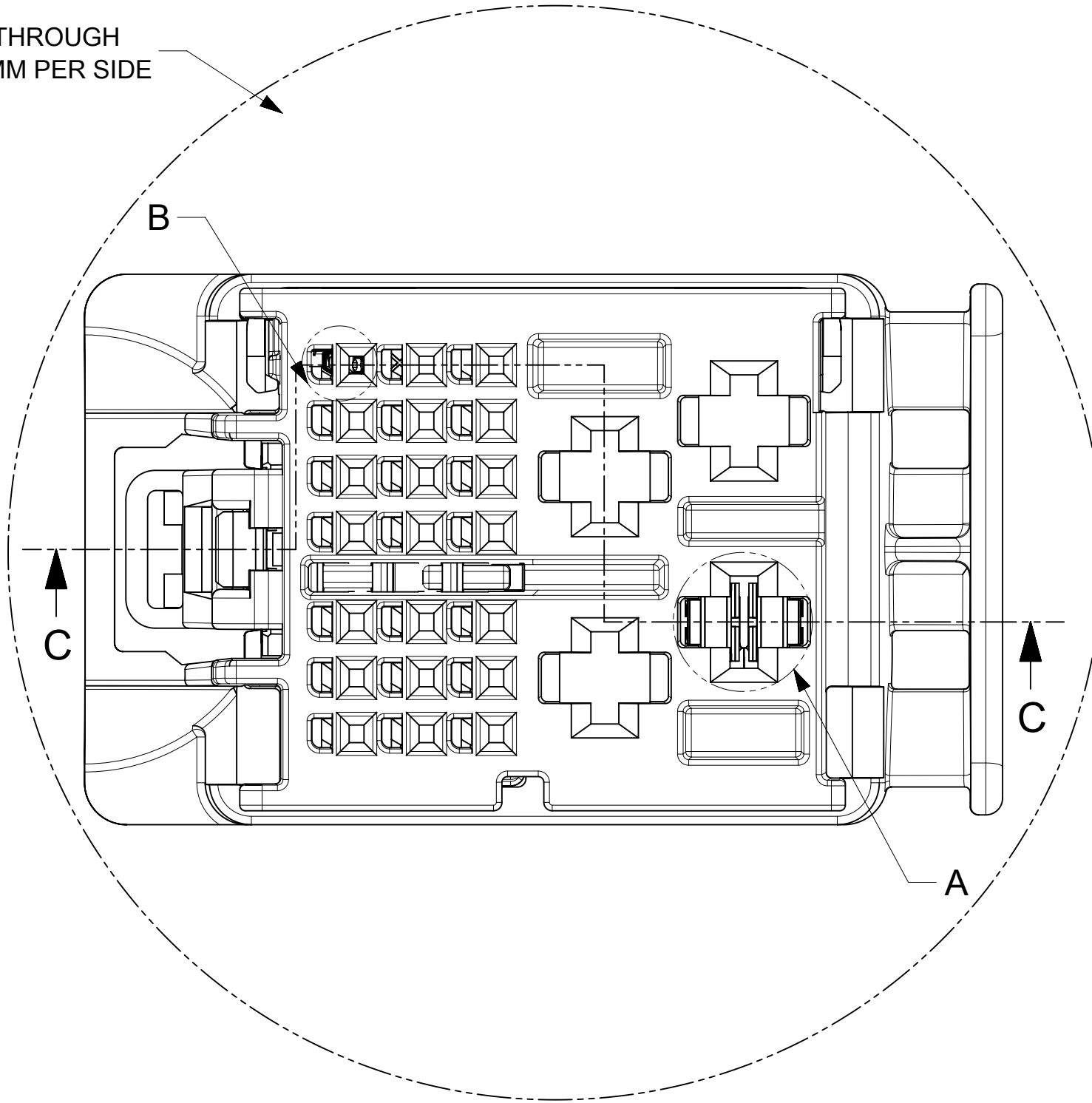


TERMINAL LOCATION
VERIFICATION AREA

DETAIL B
SCALE 10:1



(Ø39.16) PASS THROUGH
CLEARANCE 1MM PER SIDE



CPA FINAL POSITION
(0.24)
RECESSED

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

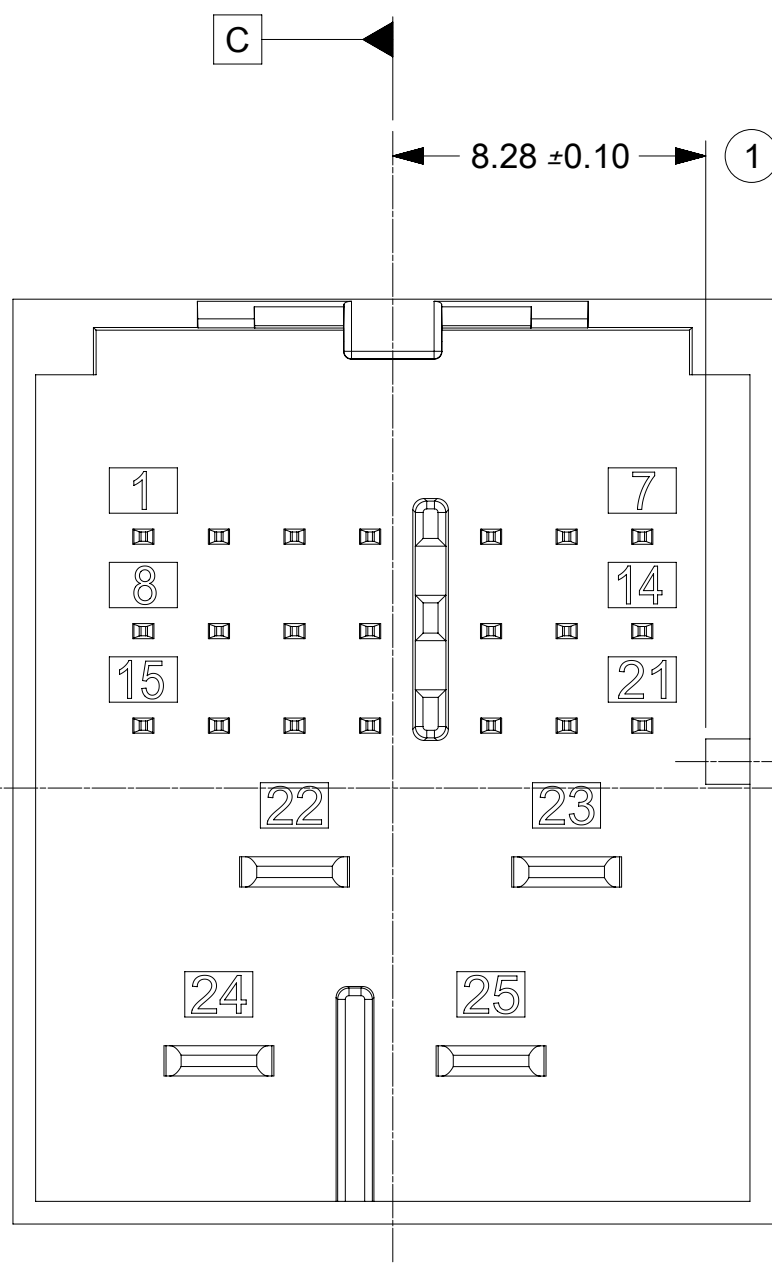
LASER ETCH
DATE CODE

YYDDD
HHMMSS

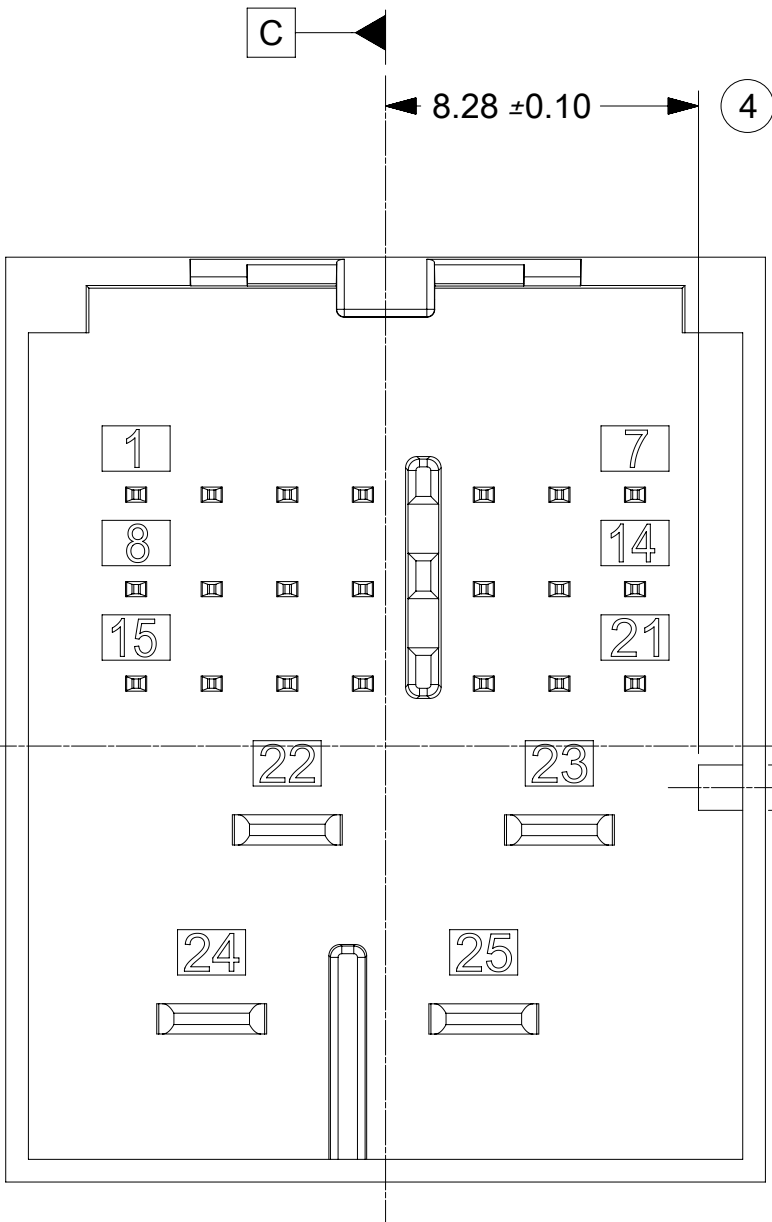
1.30 ±0.30
ISL IN OPEN
POSITION

ISL IN CLOSED
POSITION

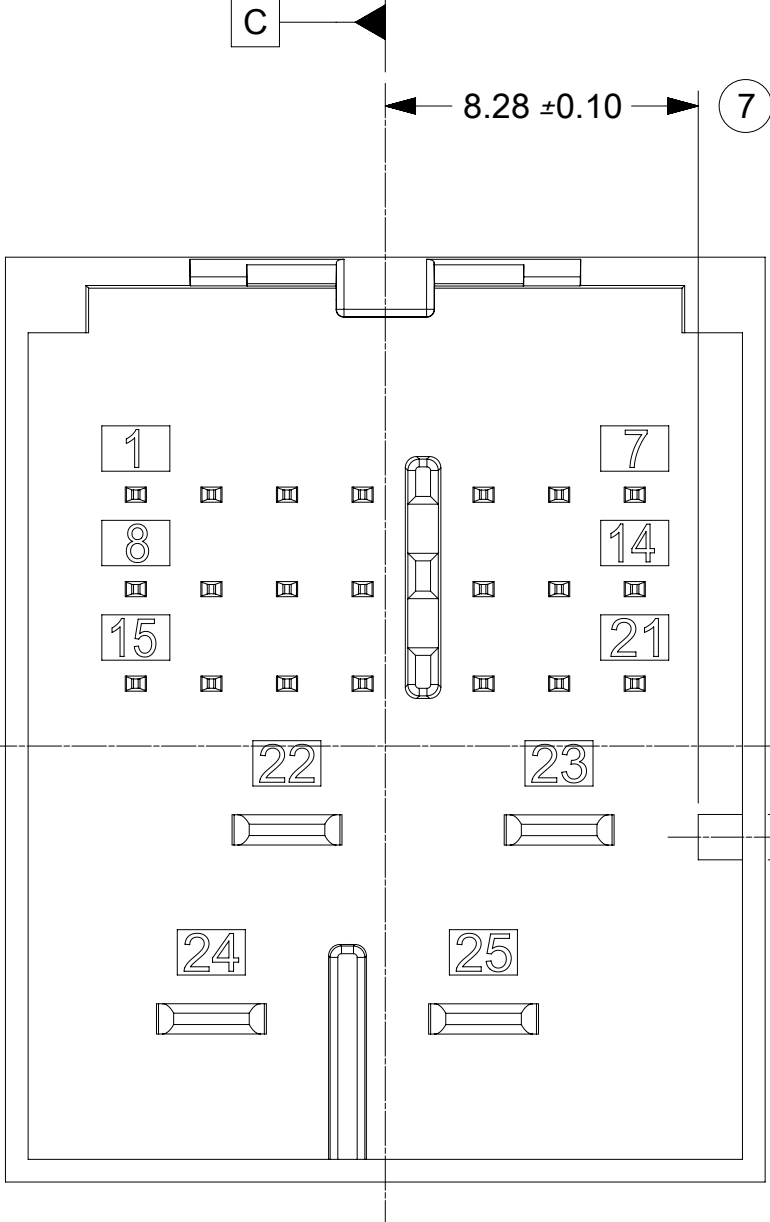
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
		DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATED 2.8 CAVITY VIEWS ON SHEET 2				molex 25WAY STAK50H HYBRID CONNECTOR ASSEMBLY							
 = 0		mm															
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)															
 = 0																	
 = 0		ANGULAR TOL		±	3.0 °												
 = 0		4 PLACES		±		EC NO: 176550											
 = 0		3 PLACES		±		DRWN: JCONDON 2018/05/18											
 = 0		2 PLACES		±	0.3	CHK'D: JCONDON 2018/07/26											
 = 0		1 PLACE		±	0.3	APPR: JCONDON 2018/07/26											
 = 0		0 PLACES		±	0.3	INITIAL REVISION:											
 = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
 = 0										SD-160027-0001		PSD		000		B1	
 = 0										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
								D-SIZE 160027				GENERAL MARKET		2 OF 2			



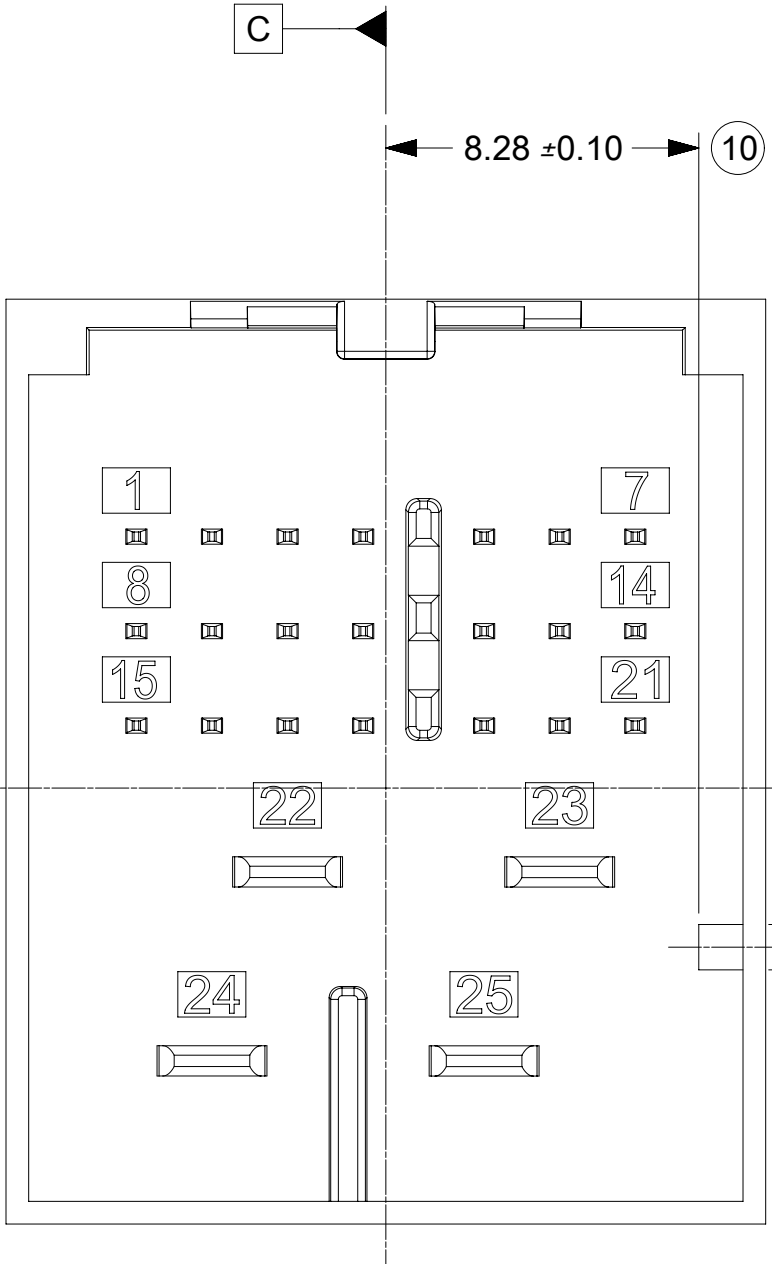
INTERFACE KEY 1 & KEY 5



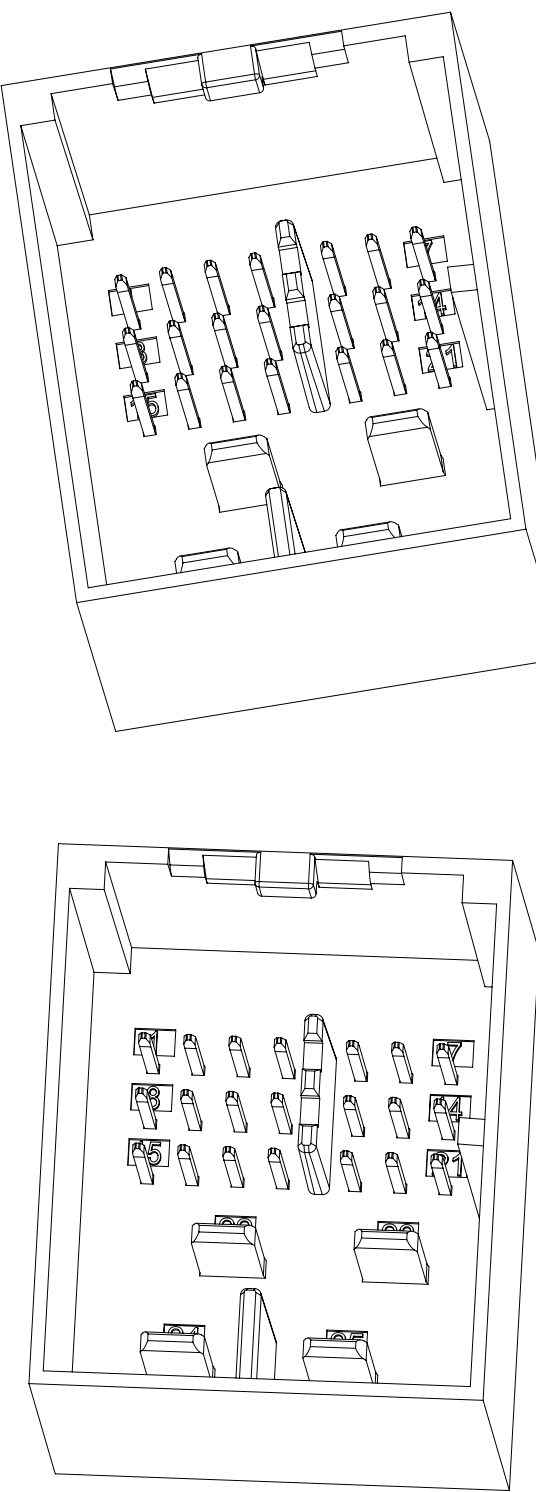
INTERFACE KEY 2 & KEY 6



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

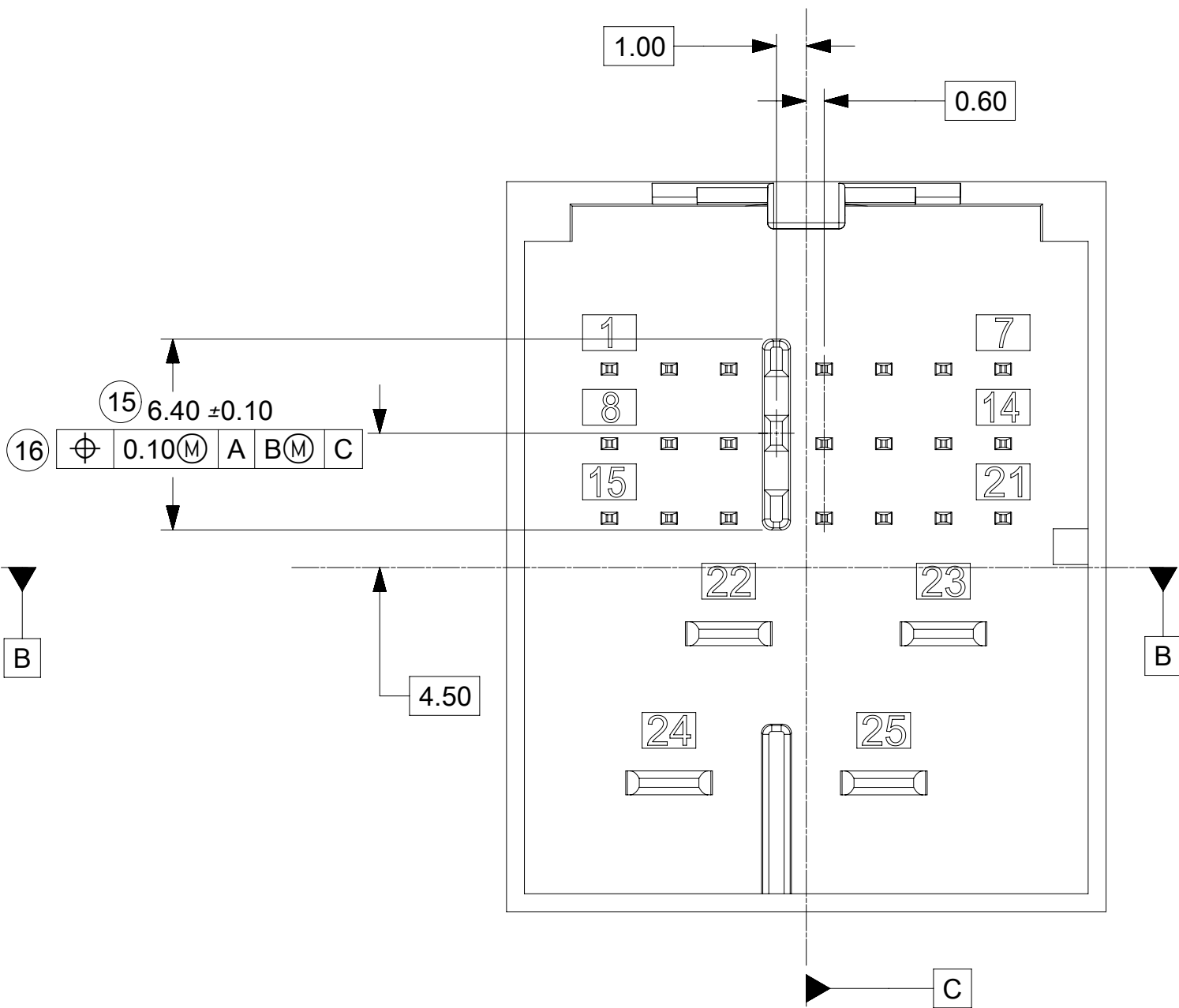
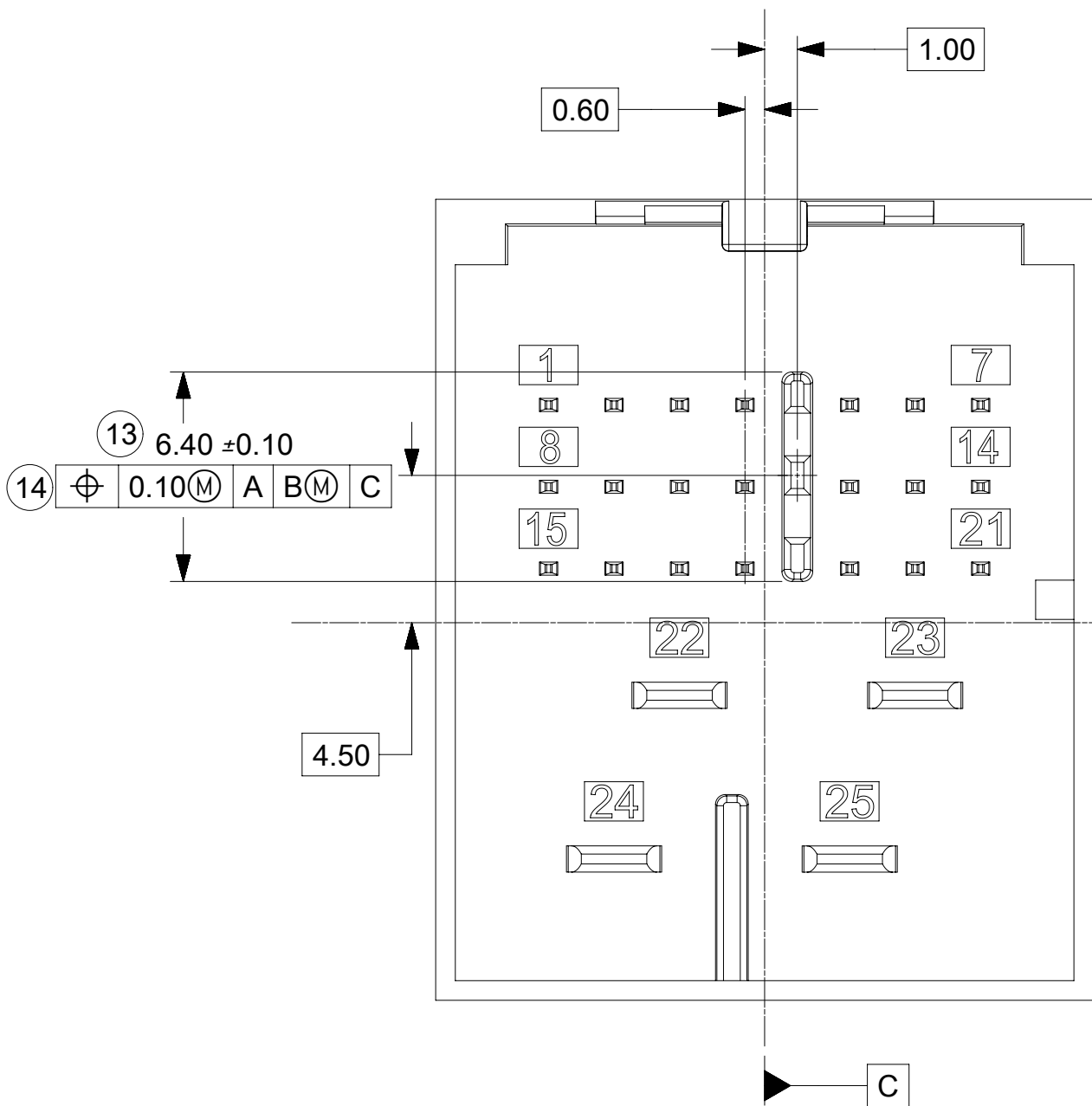
NOTES:VALID UNLESS OTHERWISE SPECIFIED

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	UUAU2016-1146 SAP # 10681629 JCONDON 03/25/2015

RIB OPTION A

RIB OPTION B



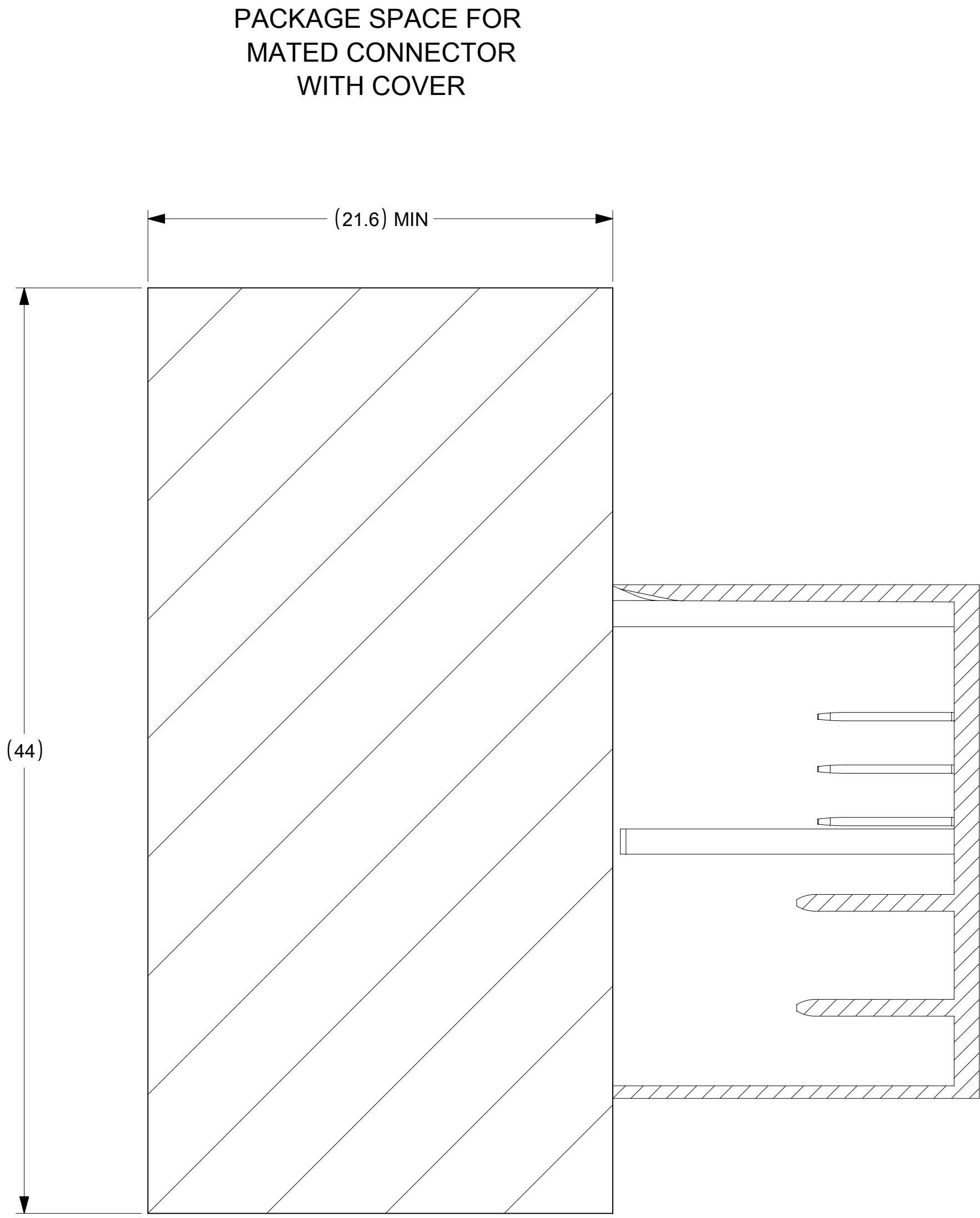
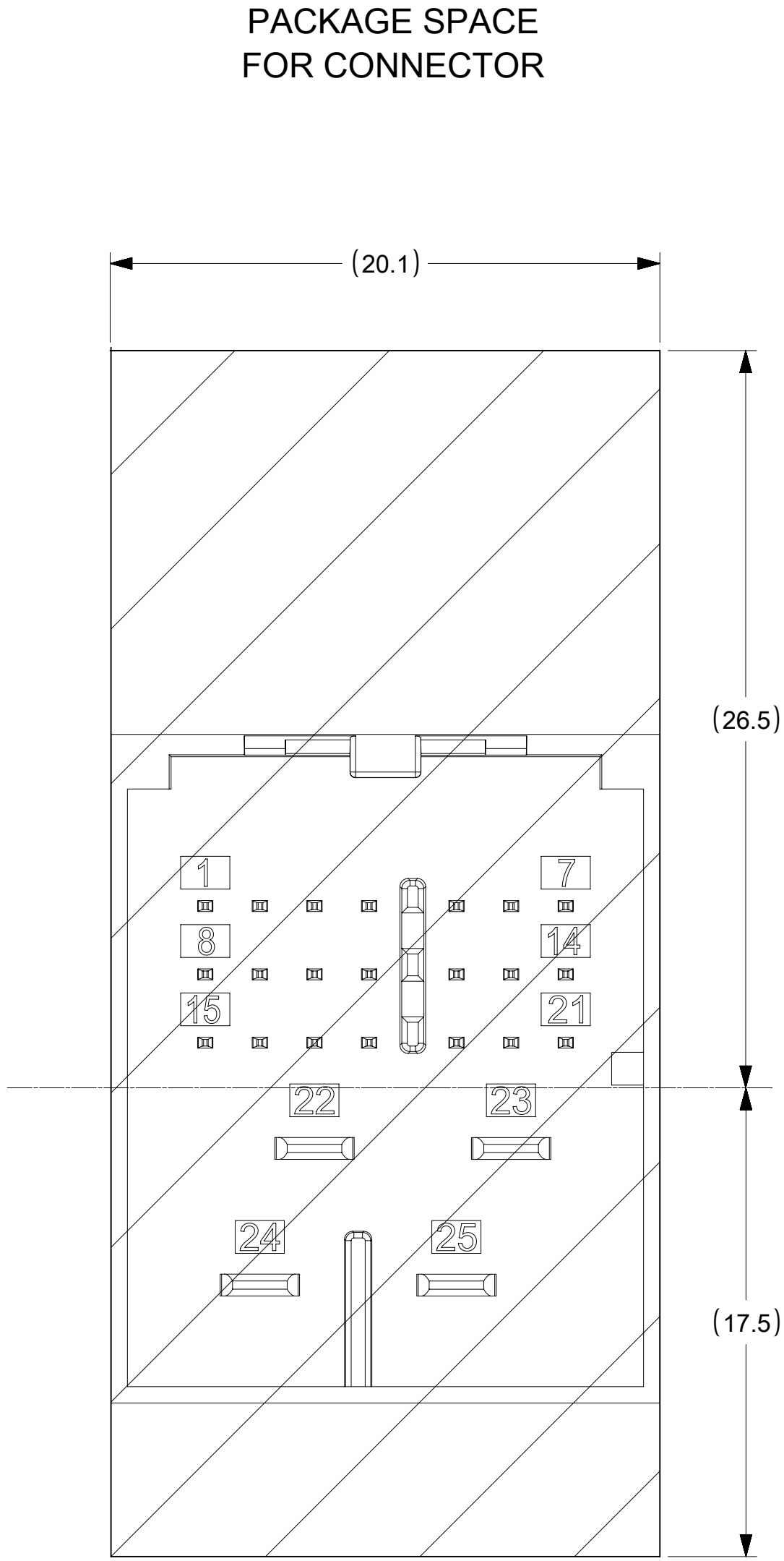
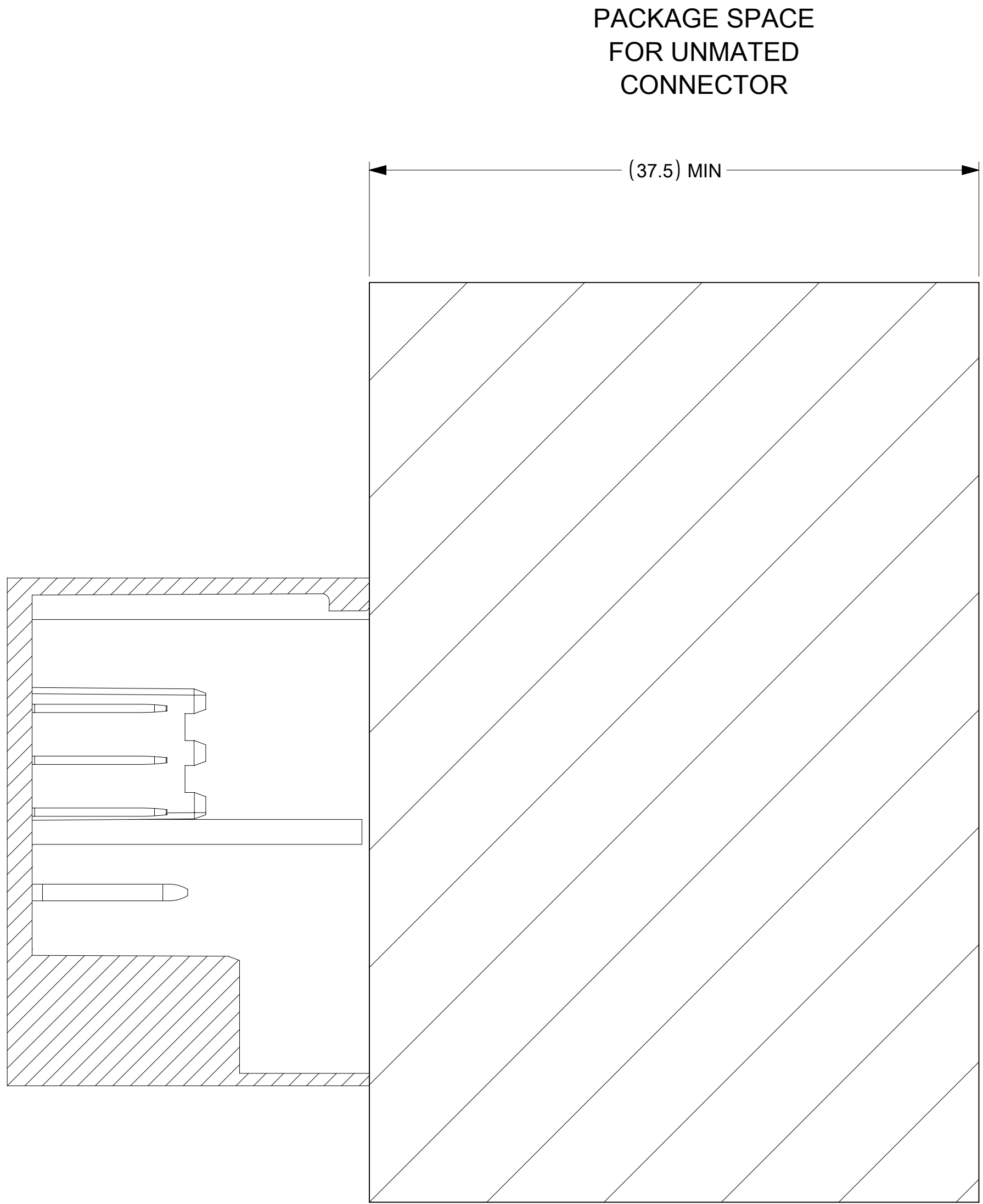
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	DIMENSION UNITS	SCALE			
	CURRENT REV DESC: ADDED 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1				
	EC NO: 626144				
	DRWN: JCONDON 2019/09/19				
▽ = 0	mm	GENERAL TOLERANCES (UNLESS SPECIFIED)	CHK'D: DLANGOLF 2019/10/22	molex	
▽ = 0	4 PLACES	ANGULAR TOL ± °	APPR: JCONDON 2019/10/23		
▽ = 0	3 PLACES	INITIAL REVISION:			
▽ = 0	2 PLACES	DRWN: SPEMMARAJU 2015/11/03		25WAY STAK50H INTERFACE DRAWING	
▽ = 0	1 PLACE	APPR: KDEKOSKI 2016/03/24		PRODUCT CUSTOMER DRAWING	
▽ = 0	0 PLACES	THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	D-SIZE	160027	SD-160027-002
▽ = 0					DOC TYPE DOC PART REVISION
					PSD 000 C
					MATERIAL NUMBER CUSTOMER SHEET NUMBER
					GENERAL MARKET 1 OF 3



*OPTION B IS THE PREFERRED CONSTRUCTION
FOR ALL NEW HEADERS



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				molex					
mm													
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL		±		°		25WAY STAK50H INTERFACE DRAWING					
EC NO: 626144								PRODUCT CUSTOMER DRAWING					
DRWN: JCONDON		2019/09/19											
CHK'D: DLANGOLF		2019/10/22						DOCUMENT NUMBER SD-160027-002					
APPR: JCONDON		2019/10/23											
INITIAL REVISION:								DOC TYPE		DOC PART		REVISION	
DRWN: SPEMMARAJU		2015/11/03						PSD		000		C	
APPR: KDEKOSKI		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	



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			molex							
	mm														
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 626144 DRWN: JCONDON 2019/09/19 CHK'D: DLANGOLF 2019/10/22 APPR: JCONDON 2019/10/23						25WAY STAK50H INTERFACE DRAWING				
	ANGULAR TOL ± °														
	4 PLACES		±					PRODUCT CUSTOMER DRAWING							
	3 PLACES		±												
	2 PLACES		±												
	1 PLACE		±		DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION					
	0 PLACES		±		SD-160027-002			PSD	000	C					
	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	