



产品编号：[1600260001](#)
Product Description：[stAK50h Hybrid Receptacle, 12 Circuits, Key 1, Black, Bag](#)
系列号：[160026](#)
状态：[Active](#)
Product Category：[Connector Housings](#)



文件和资源

图纸

[图纸 1600260001_sd.pdf](#)

3D 模型和设计文件

[3D模型 1600260001_stp.zip](#)

规格

[应用规格 AS-160014-001-001.pdf](#)

[应用规格 1600140001-AS-CH-000.pdf](#)

[测试摘要 1600140000-TS-000.pdf](#)

产物环境合规

合规

GADSL/IMDS	Compliant
China RoHS	Not Relevant
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	160026
说明	stAK50h Hybrid Receptacle, 12 Circuits, Key 1, Black, Bag
应用	Automotive, Power, Signal, Wire-to-Board
产品系列	stAK50h Connection System
产品名称	stAK50h
UPC	887191923246

电气

每触点最大电流	12. 0A, 30. 0A
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物理

电路数（最多）	12
颜色-树脂	黑色
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. 650/g
行数	4
包装形式	Bag
面板安装式	否
间距 - 插配接口	2. 00mm, 4. 00mm, 5. 20mm, 7. 20mm
间距 - 终端界面	2. 00mm, 4. 00mm, 5. 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

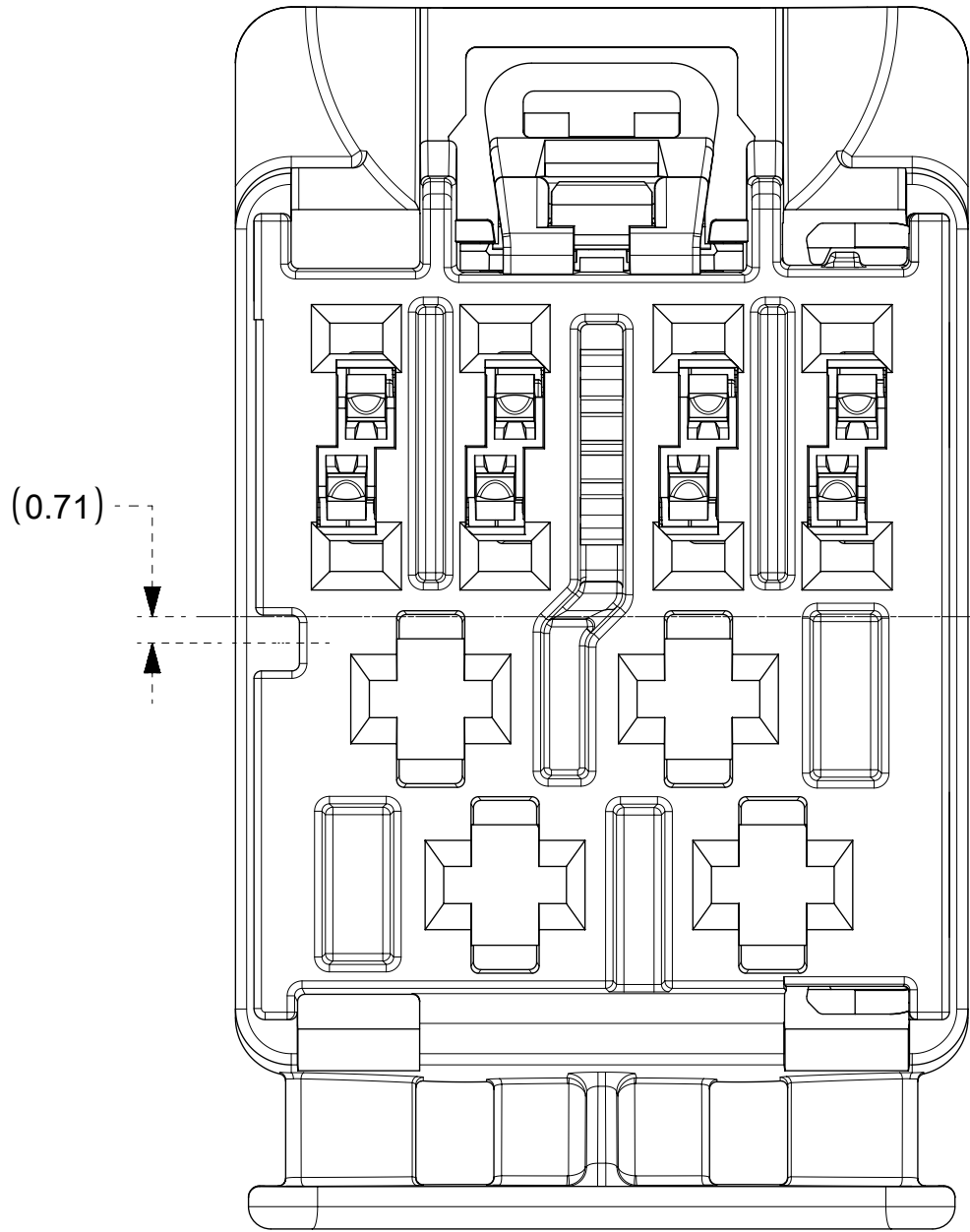
可配插/可连接使用的产品

可配插部件

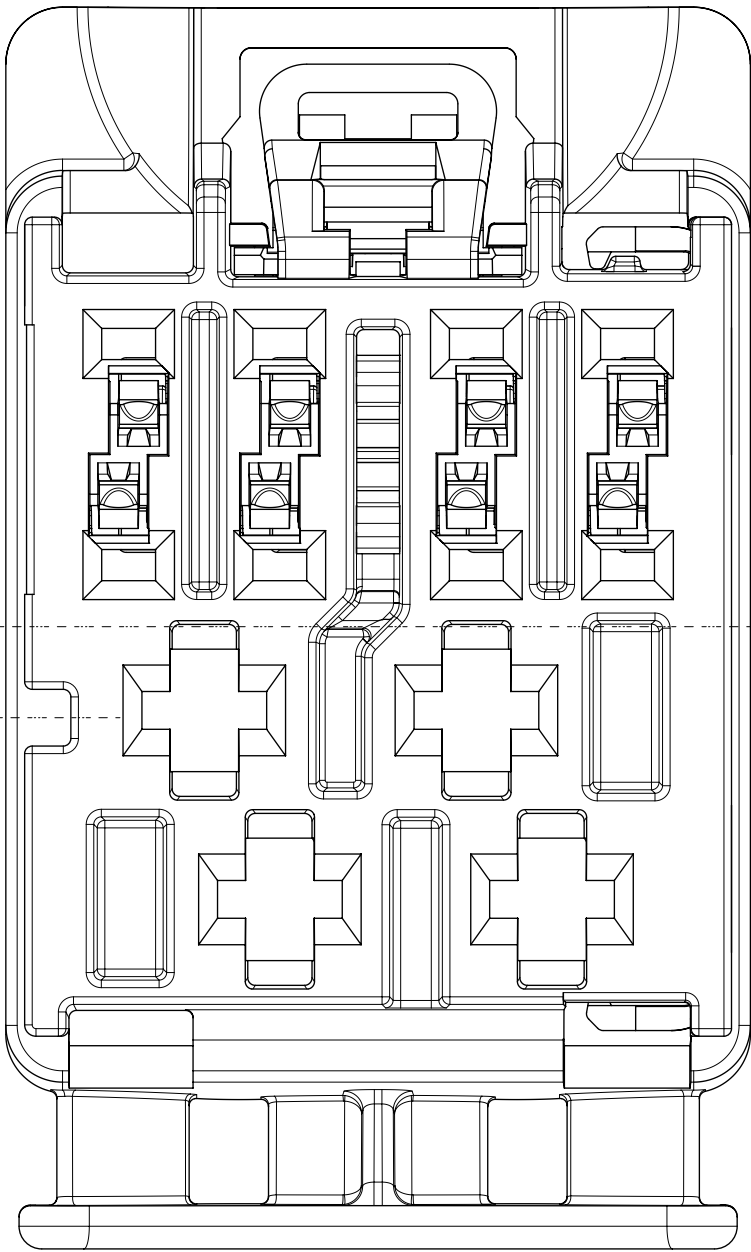
描述	产品编号
stAK50h Vertical Hybrid Header, 12 Circuits, Key 1, Black, Tube	<u>2005010121</u>
stAK50h Right-Angle Hybrid Header, 12 Circuits, Key 1, Black, Tube	<u>2005020121</u>

可连接使用部件

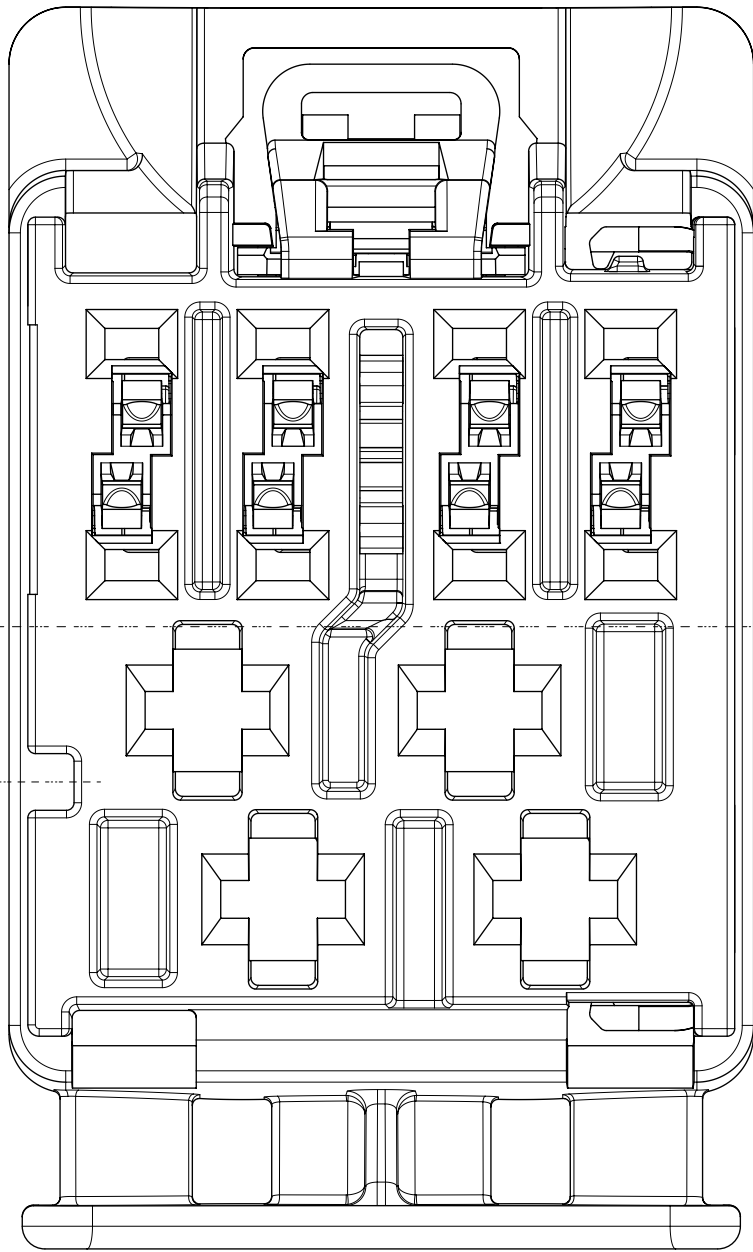
描述	产品编号
可装的端子等部件	Aptiv OCS 1.20mm Terminal or JST MSA 1.20mm Terminal
可装的端子等部件	TE AMP MCP 2.80mm Terminal or Aptiv CTS 2.80mm Terminal



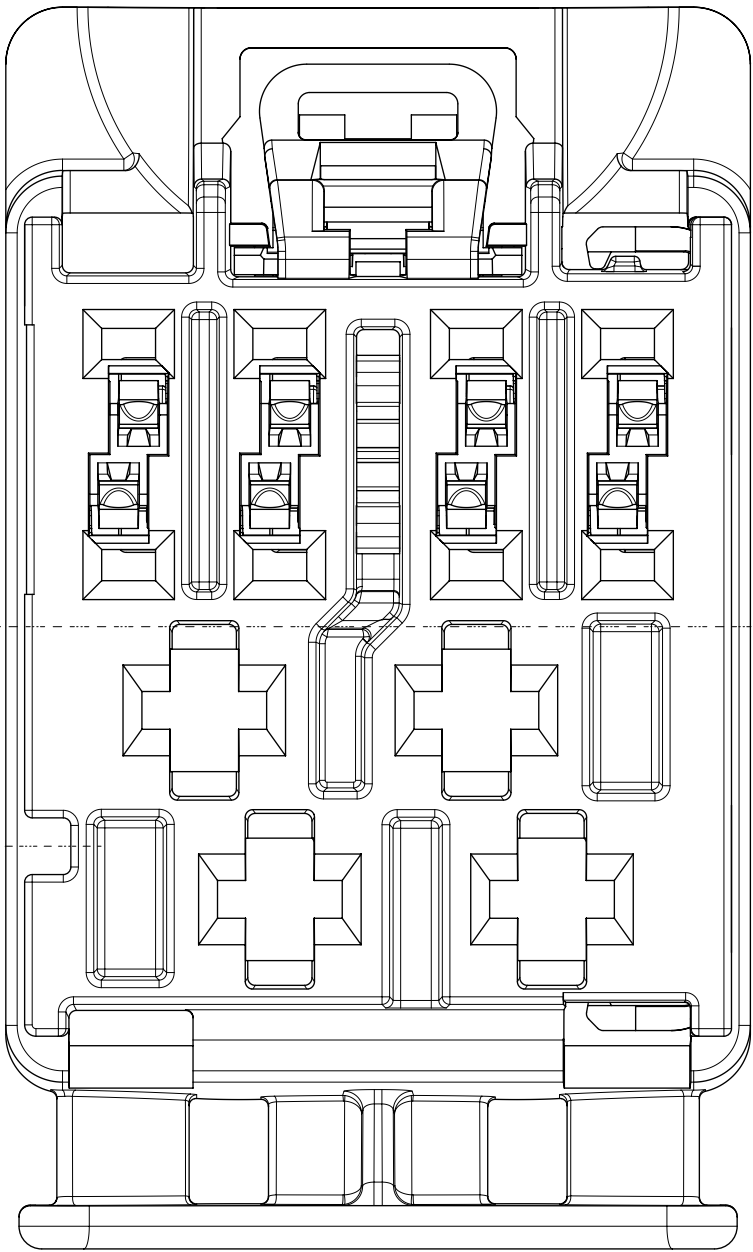
12WAY CONNECTOR ASSEMBLY
KEY 1
P/N 1600260001



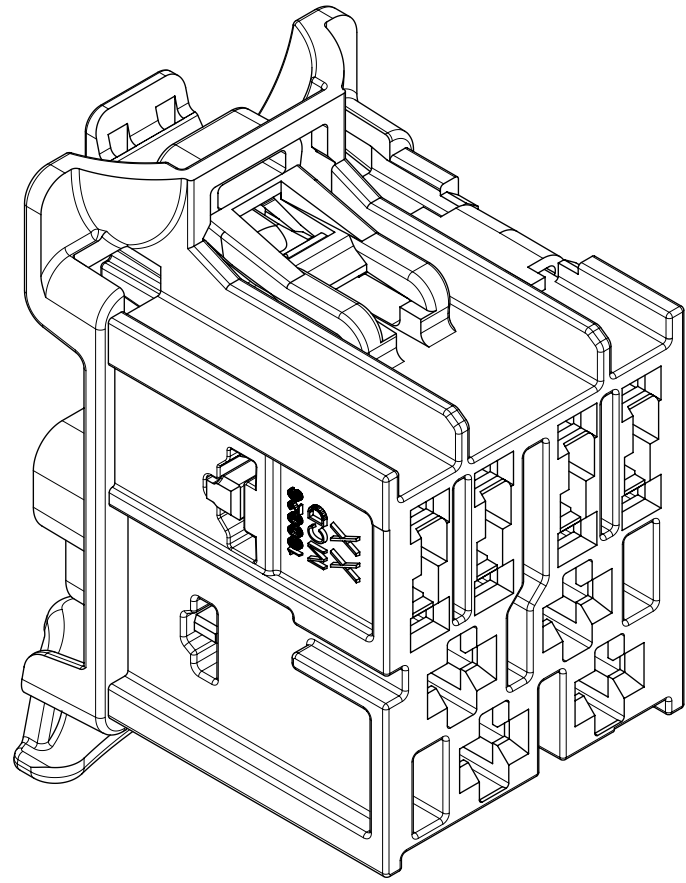
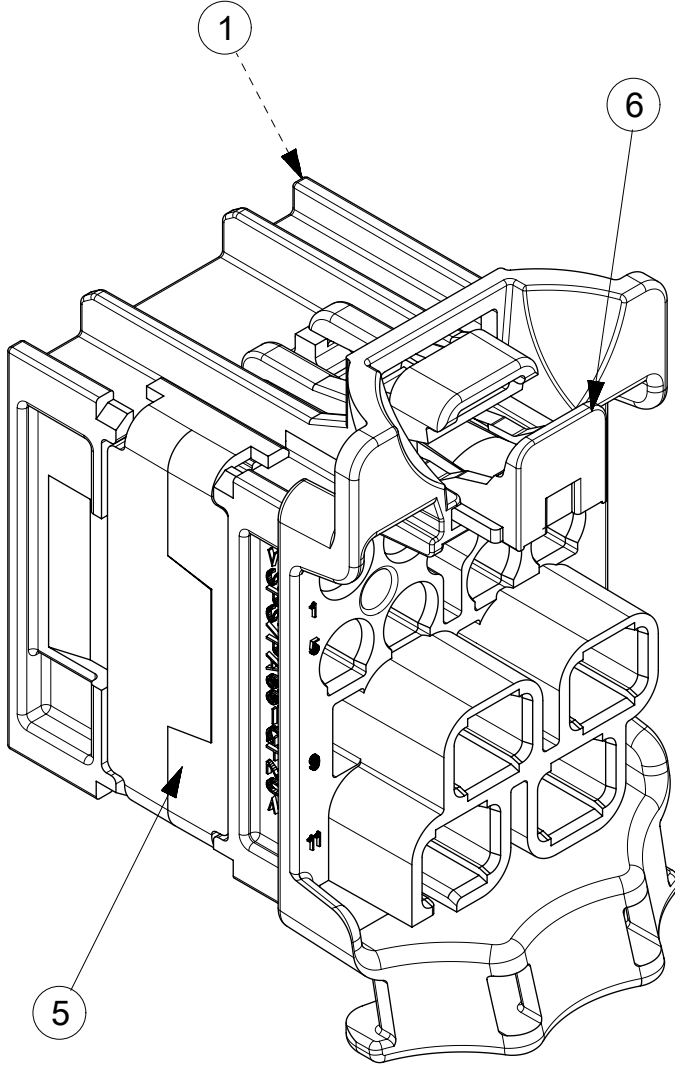
12WAY CONNECTOR ASSEMBLY
KEY 2
P/N 1600260002



12WAY CONNECTOR ASSEMBLY
KEY 3
P/N 1600260003



12WAY CONNECTOR ASSEMBLY
KEY 4
P/N 1600260004



- 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)

ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	NO OF ITEMS REQUIRED			
1	CONN HOUSING - KEY 1	BLACK	SPS/PA66-GF20	5.0	1			
2	CONN HOUSING - KEY 2	LT GREEN B	SPS/PA66-GF20	5.0		1		
3	CONN HOUSING - KEY 3	LT PURPLE	SPS/PA66-GF20	5.0			1	
4	CONN HOUSING - KEY 4	LT GRAY	SPS/PA66-GF20	5.0				1
5	ISL	NATURAL	SPS-GF30	0.37	1	1	1	1
6	CPA	NATURAL	PA66-GF50	0.08	1	1	1	1

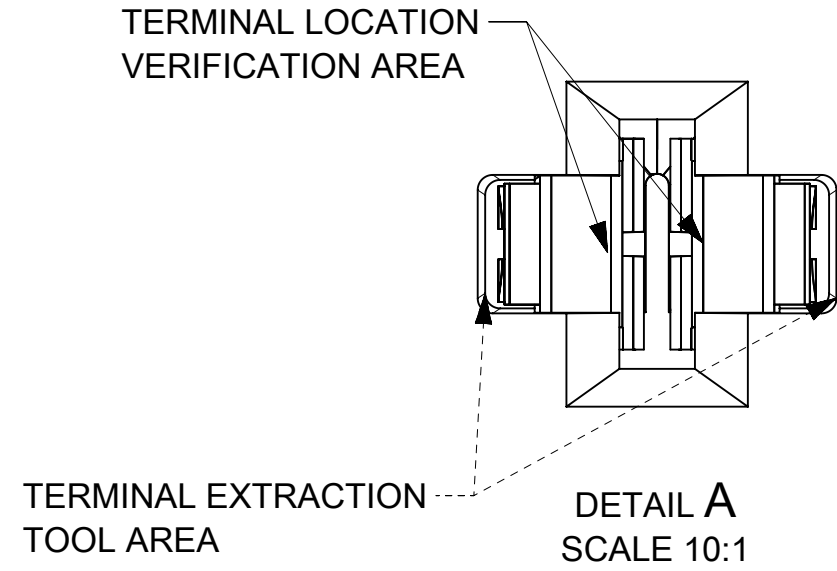
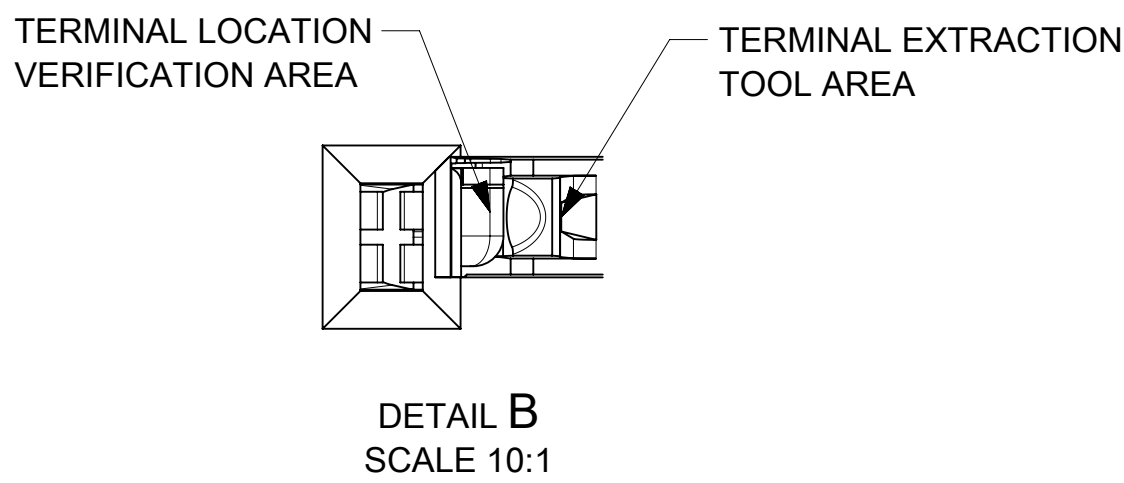
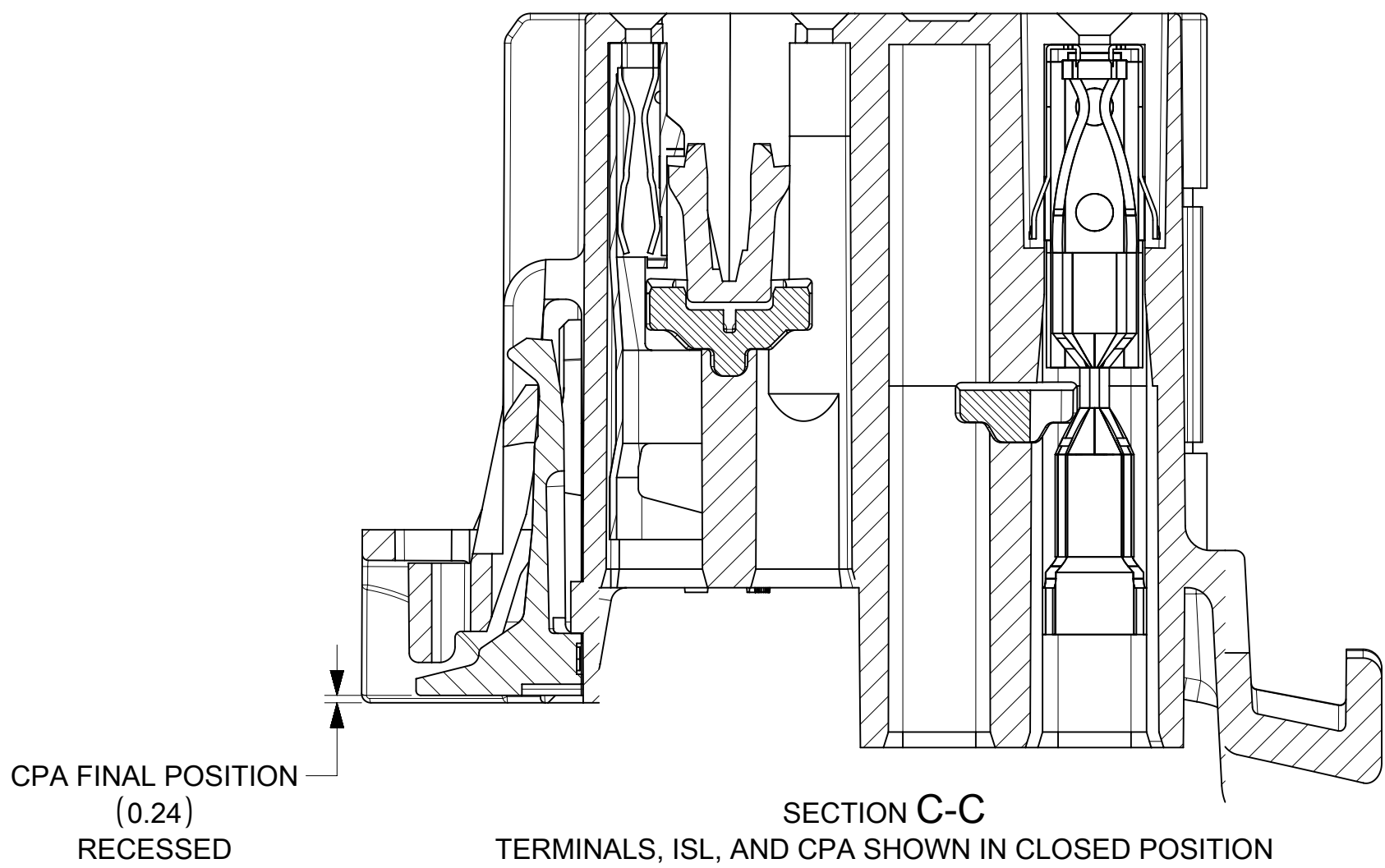
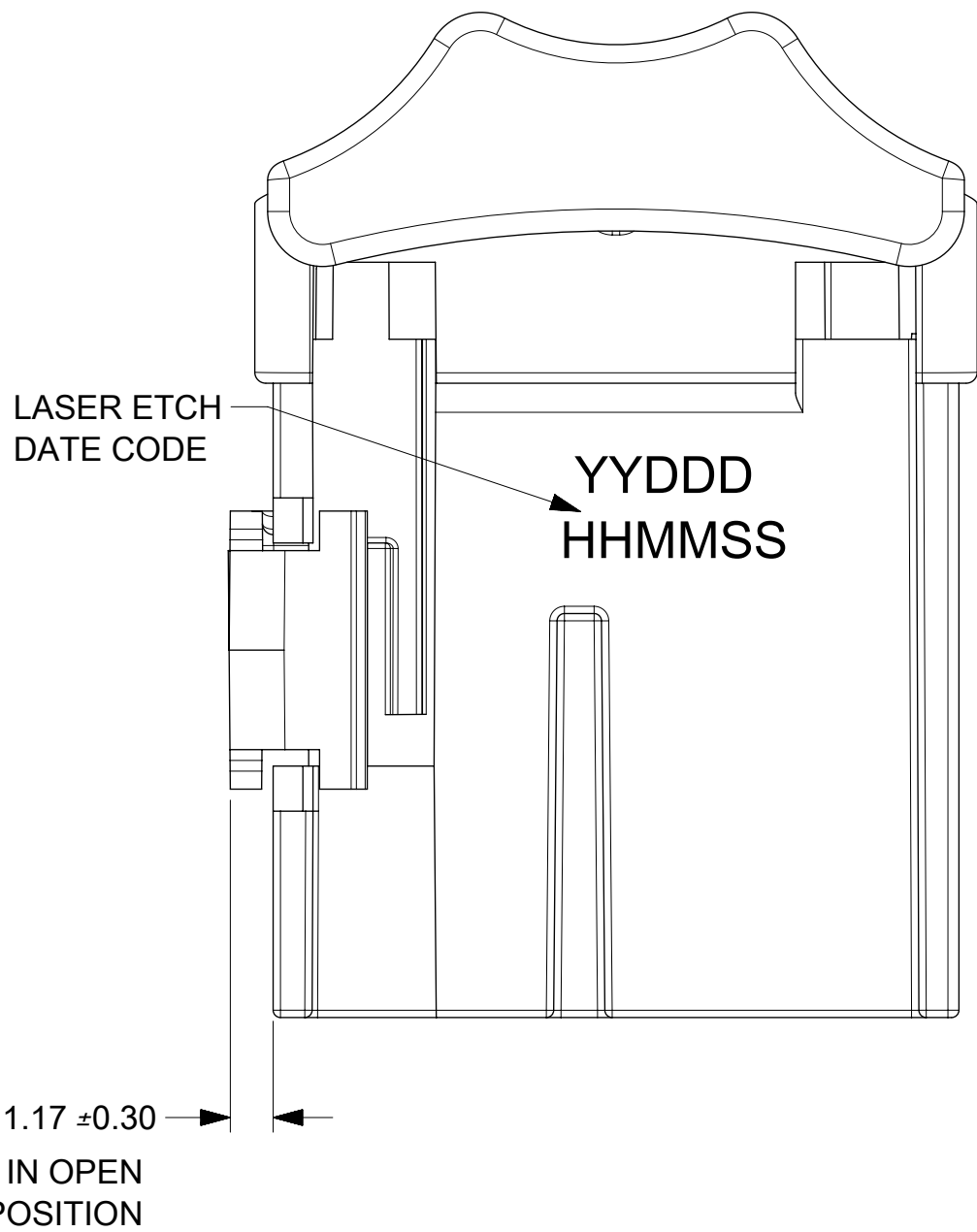
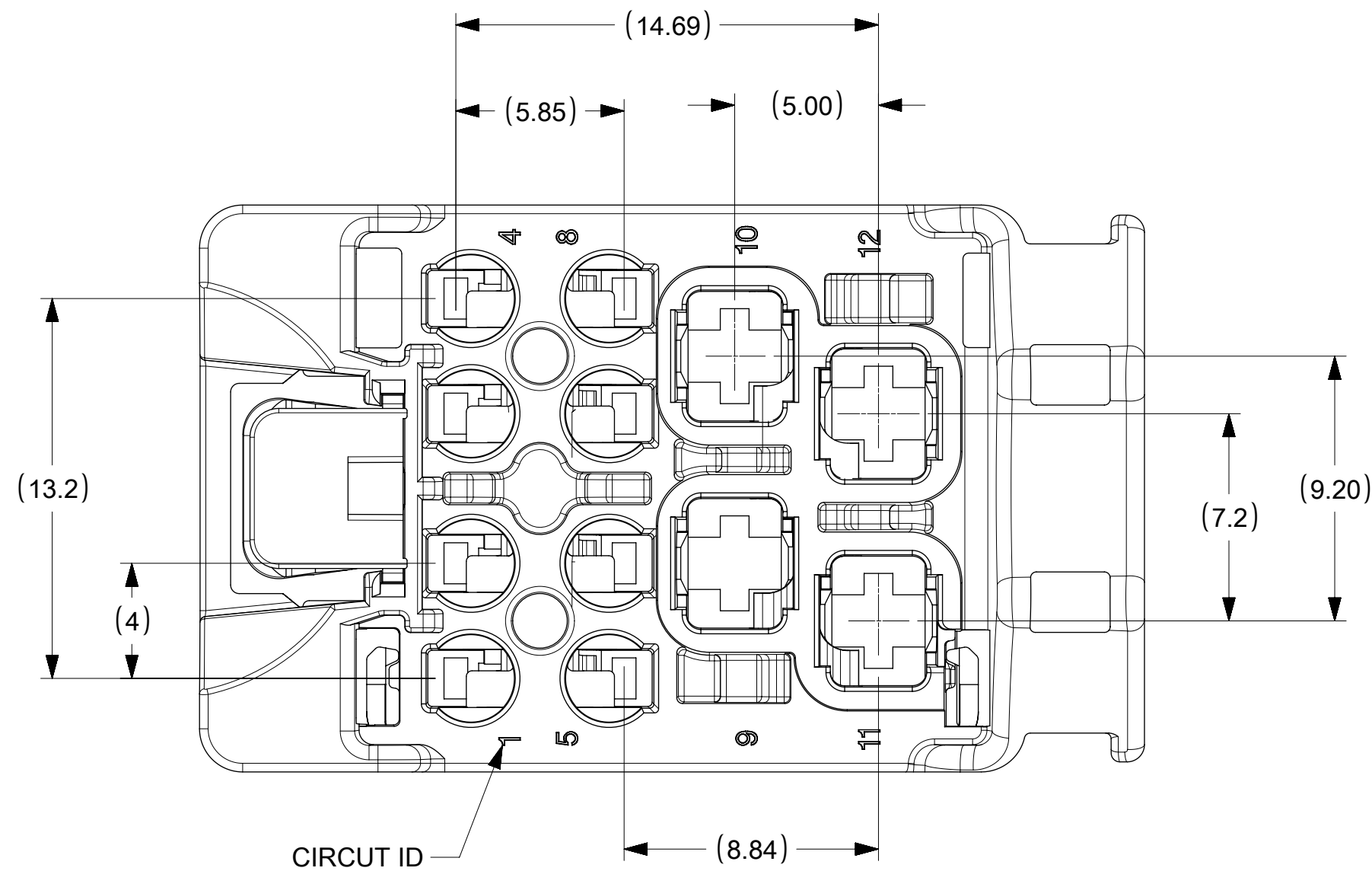
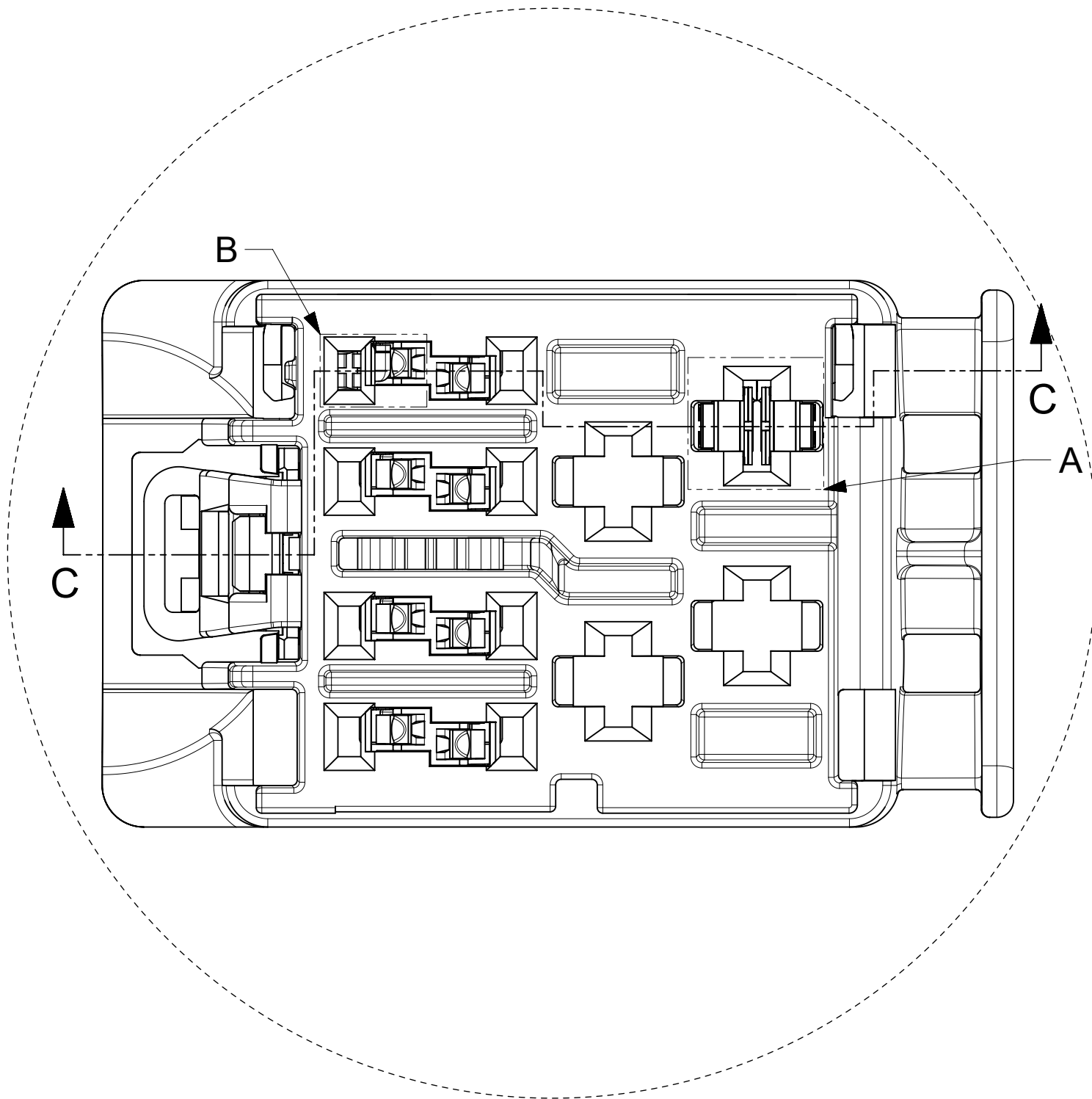
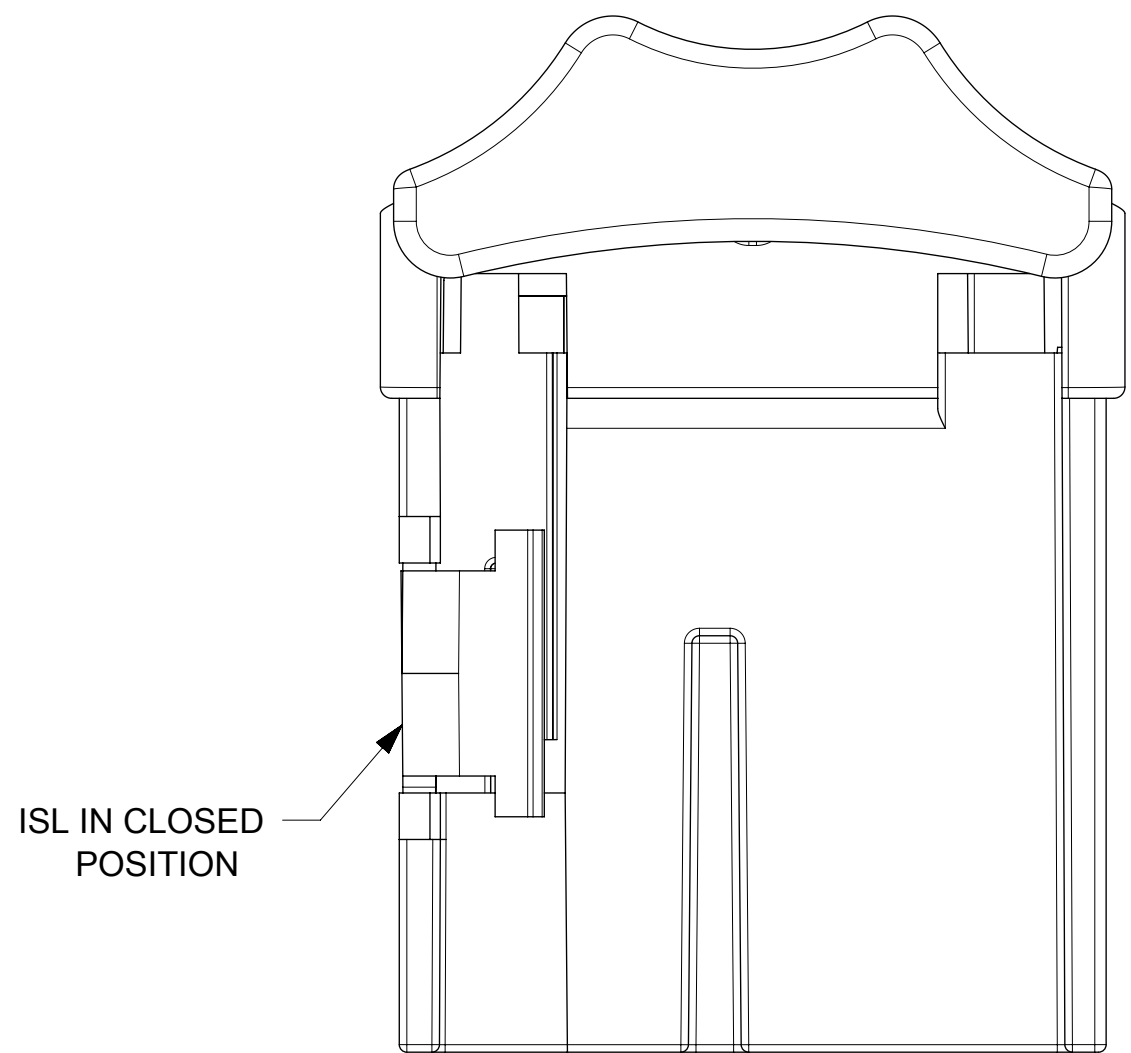
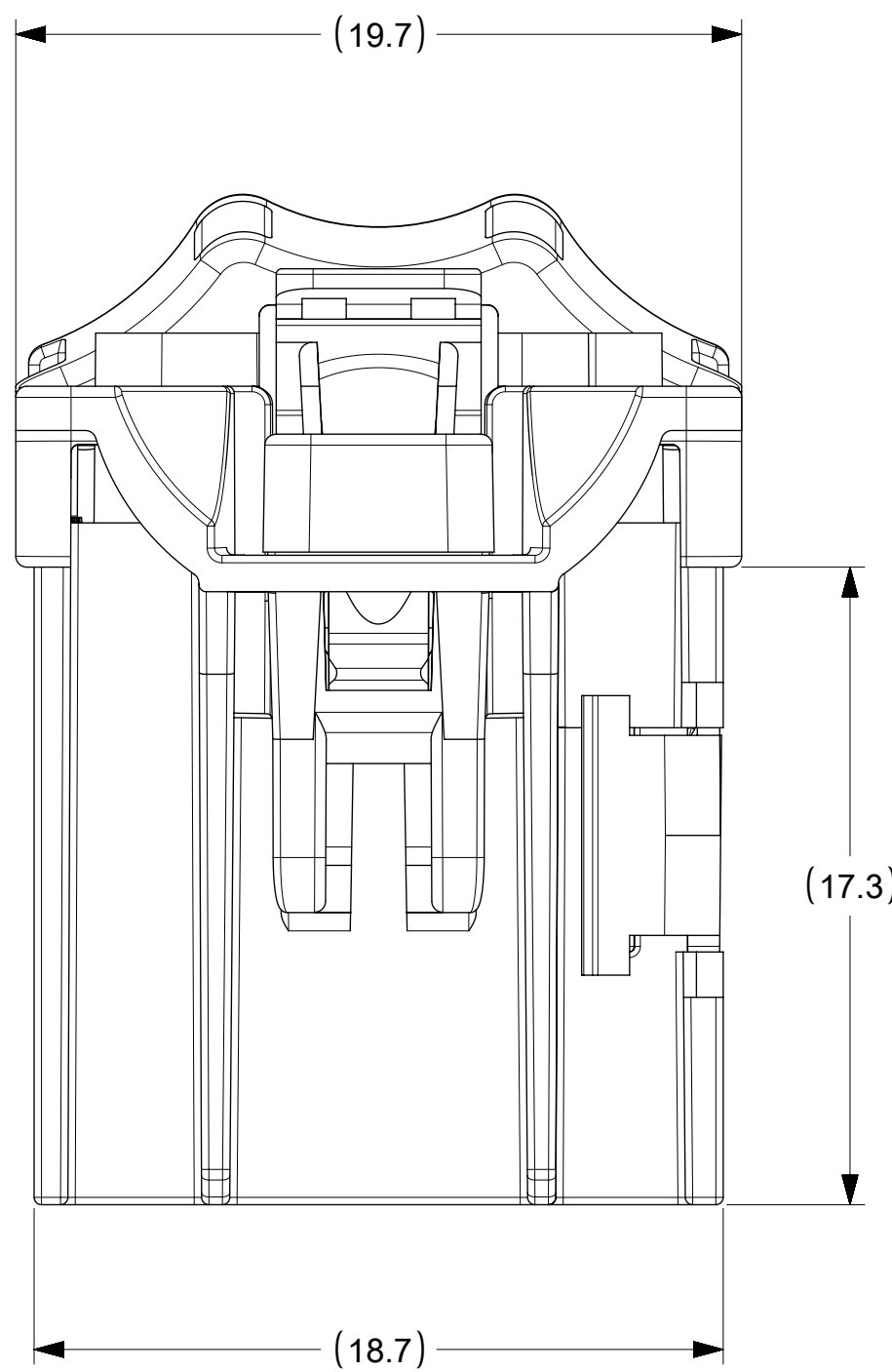
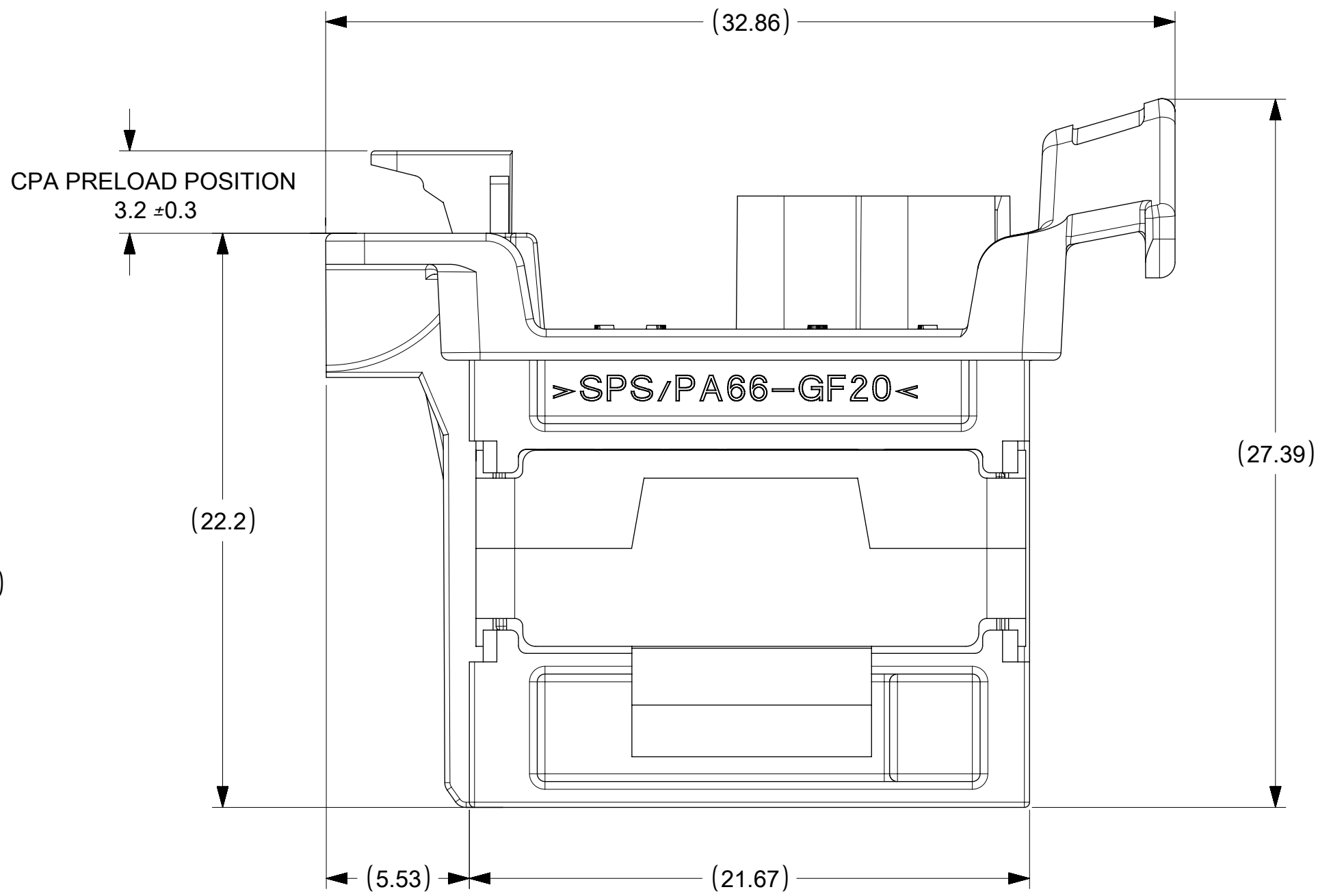
MOLEX ASSEMBLY PART NO.'S	
1600260001	KEY 1
1600260002	KEY 2
1600260003	KEY 3
1600260004	KEY 4

PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
35072403	TIN PLATING	DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2	SAE/ J1128 THIN WALL INSULATION
35072404			0.75 - 0.8		
35072405			0.8 - 1.0		
35072406			1.25 - 1.5		
SMSA-A031T-M1.2		JST	0.5 - 0.75	MSA 1.2mm TERMINAL	
SMSA-A041T-M1.2			1.0 - 1.5		
1-968851-1		TE	1.0 - 2.5	AMP MCP 2.8	
1-968849-1			0.5 - 1.0		
15457849		DELPHI	1.5 - 2.5	CTS 2.8mm	
15457848			0.5 - 1.0		

B2	UPDATED DELPHI 1.2 TERMINAL PNS
B1	UPDATED WIRE GAGE RANGE OF 1.20MM TERMINAL
B	UPDATED VIEWS SAP#: 10898772
A	NX RE-MASTERING SAP # 10816434
4	UAU2015-1899 SAP # 10698159 JCONDON 06/17/2015
3	UAU2015-1606 SAP # 10685685 JCONDON 04/23/2015
1	RELEASE FOR PROTOTYPE SAP # XXXXXXXX

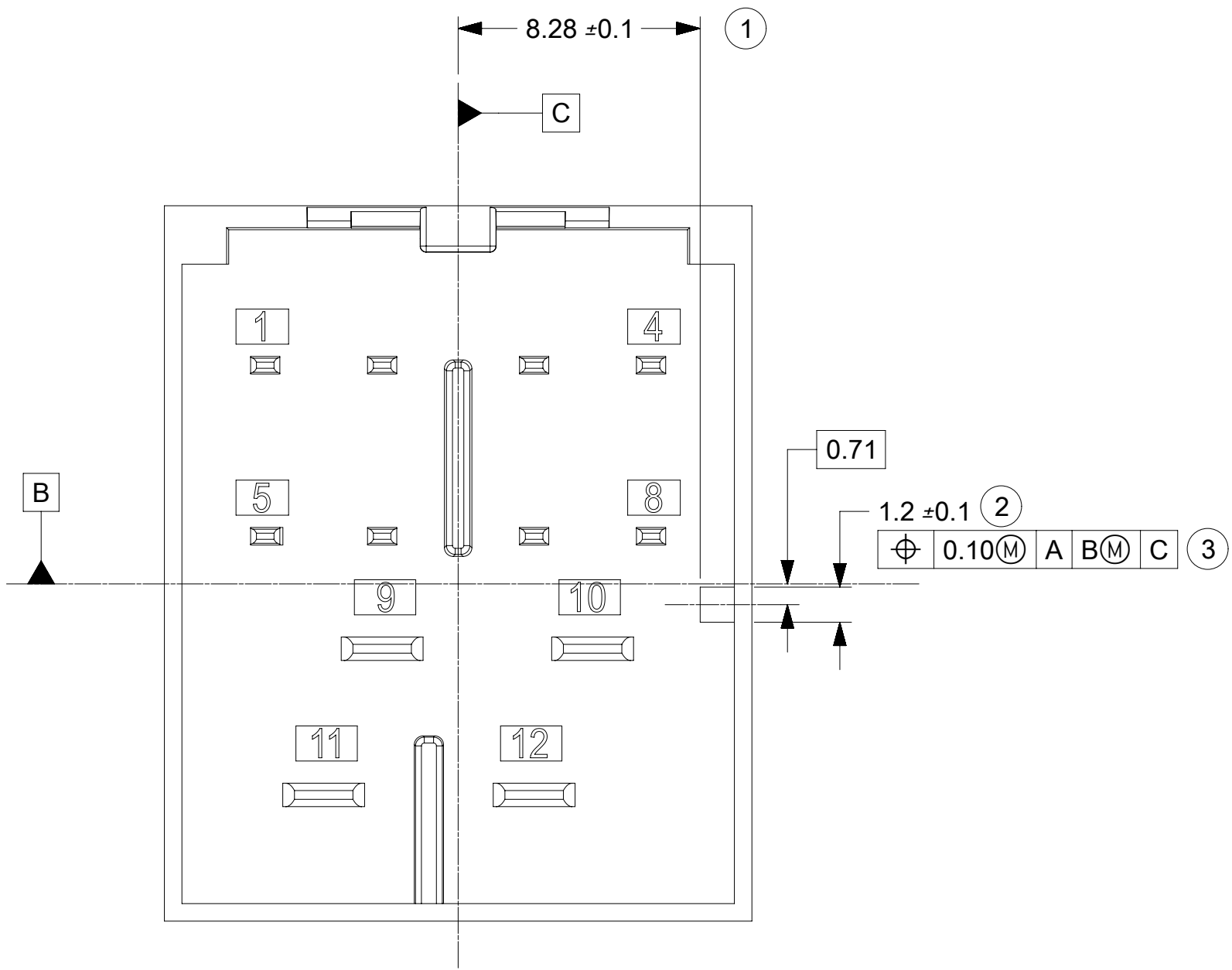
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				CURRENT REV DESC: SEE TABLE				<div>molex</div> <div>12WAY STAK50H HYBRID CONNECTOR ASSEMBLY</div>				
DIMENSION UNITS		SCALE		EC NO: 622293 DRWN: HTGUO02 2019/08/13 CHK'D: JCONDON 2019/08/13 APPR: JCONDON 2019/08/13										
GENERAL TOLERANCES (UNLESS SPECIFIED)														
	= 0	mm		ANGULAR TOL ± 3.0 °		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	= 0	4 PLACES ±		3 PLACES ±		DRWN: VYARAPPA 2017/02/07				SD-160026-0001		PSD	000	B2
	= 0	2 PLACES ± 0.3		1 PLACE ± 0.3		APPR: KDEKOSKI 2017/03/23								
	= 0	3 PLACES ±		2 PLACES ± 0.3		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
	= 0	2 PLACES ± 0.3		1 PLACE ± 0.3		THIRD ANGLE PROJECTION		DRAWING	SERIES	SEE CHART		GENERAL MARKET		1 OF 2
	= 0	1 PLACE ± 0.3		0 PLACES ± 0.3				D-SIZE	160026					
	= 0	0 PLACES ± 0.3												
	= 0													
	= 0													
	= 0													

DOCUMENT STATUS	P1	RELEASE DATE	2019/08/13	14:53:57
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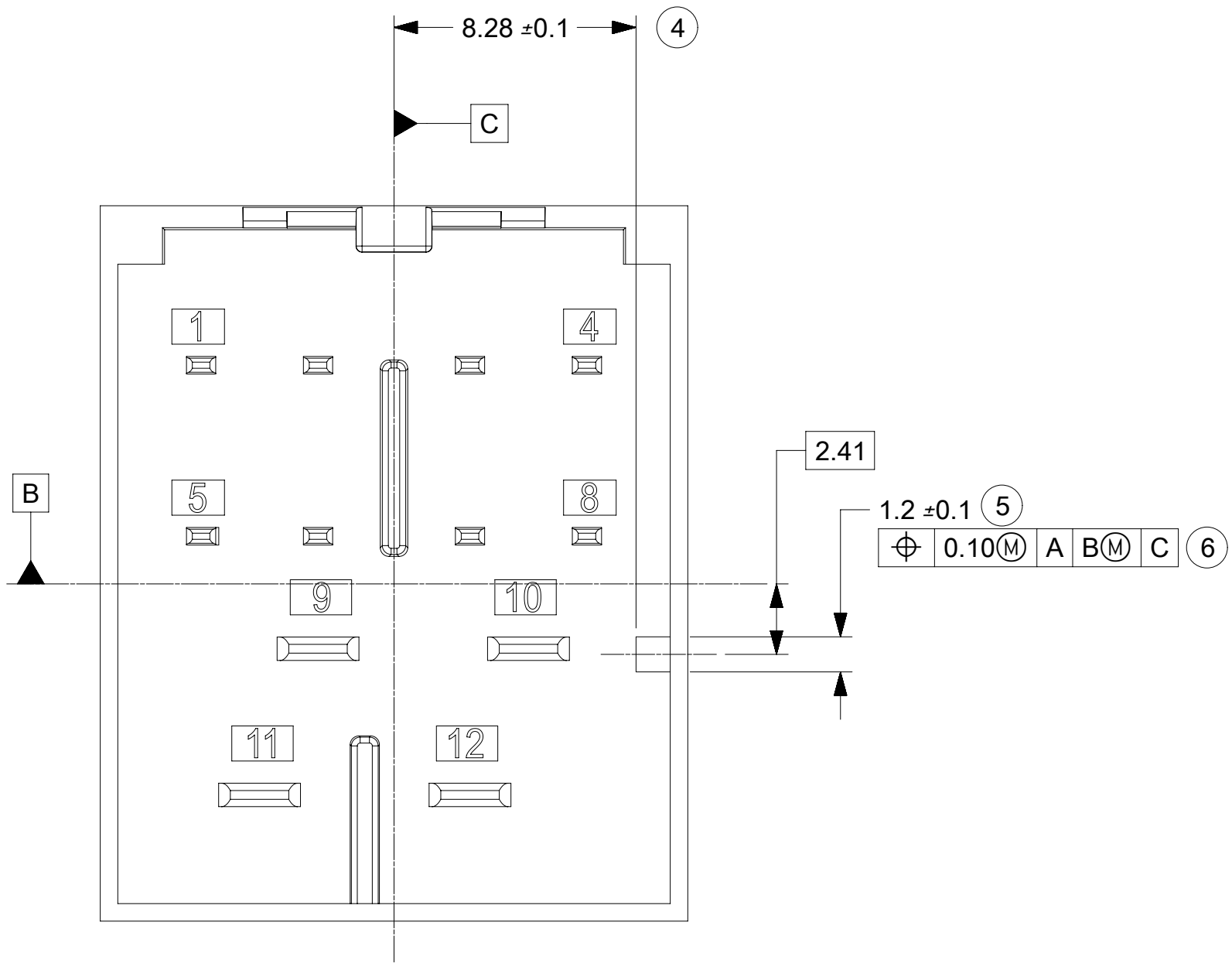


SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
<div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div>	DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE TABLE			<div><div><div></div></div></div> <div>12WAY STAK50H HYBRID CONNECTOR ASSEMBLY</div>							
	mm														
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
	ANGULAR TOL		± 3.0 °												
	4 PLACES		±												
	3 PLACES		±					PRODUCT CUSTOMER DRAWING							
	2 PLACES		± 0.3												
	1 PLACE		± 0.3												
	0 PLACES		± 0.3												
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												THIRD ANGLE PROJECTION		DRAWING
				<div><div></div><div></div></div>		D-SIZE		160026		SEE CHART		GENERAL MARKET		2 OF 2	

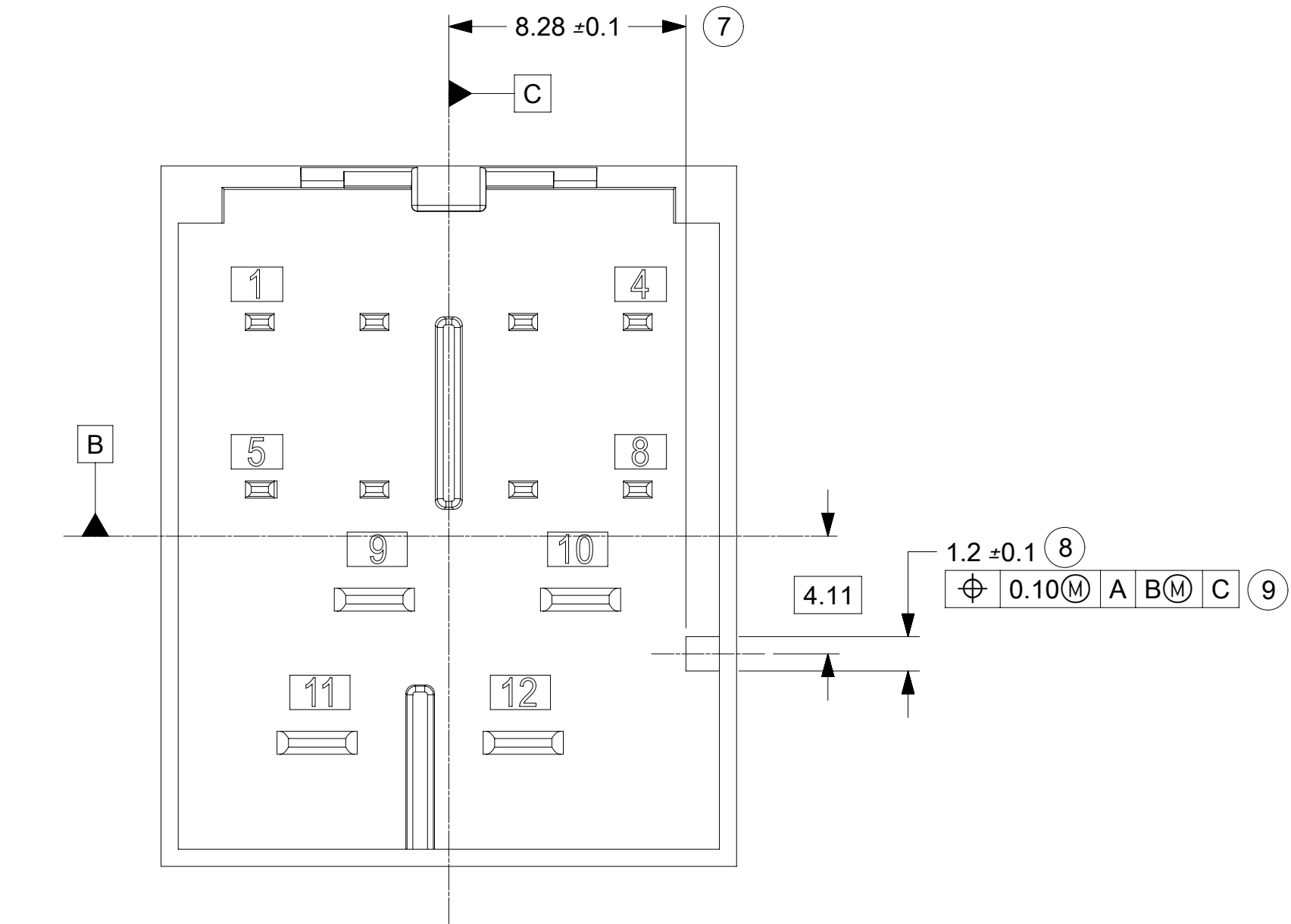
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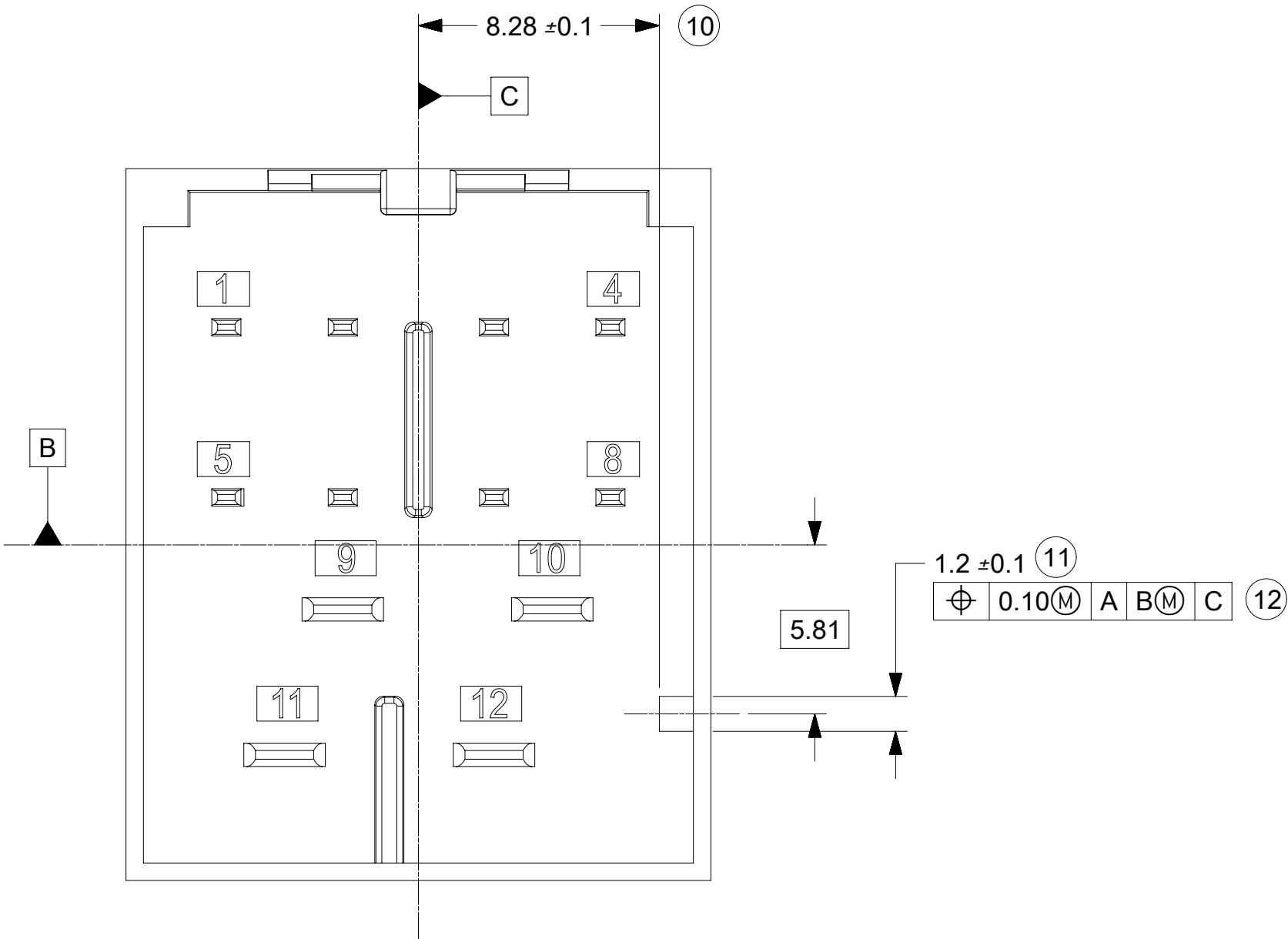
INTERFACE KEY #1
MATING CONNECTOR : BLACK



INTERFACE KEY #2
MATING CONNECTOR : LT GREEN B



INTERFACE KEY #3
MATING CONNECTOR : LT PURPLE



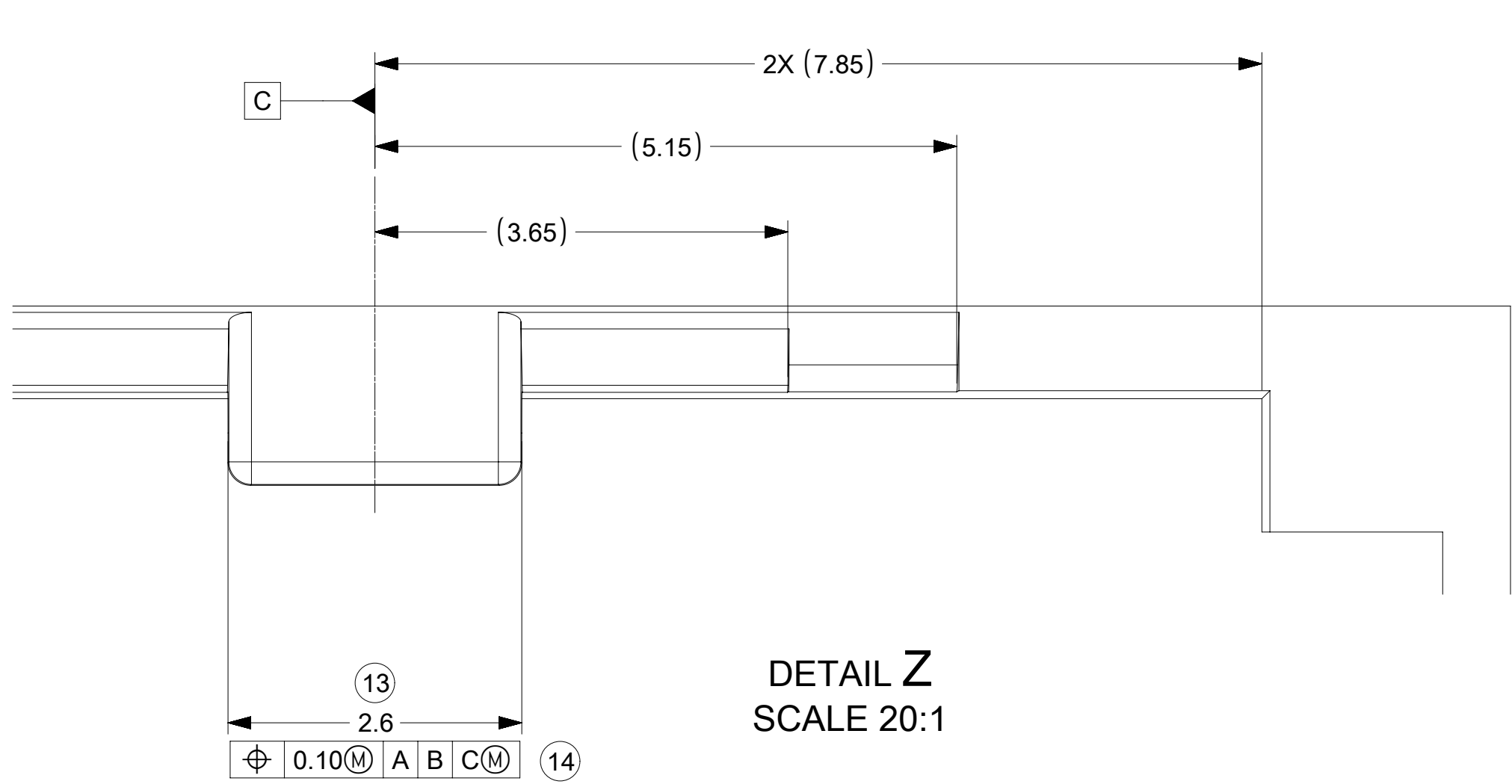
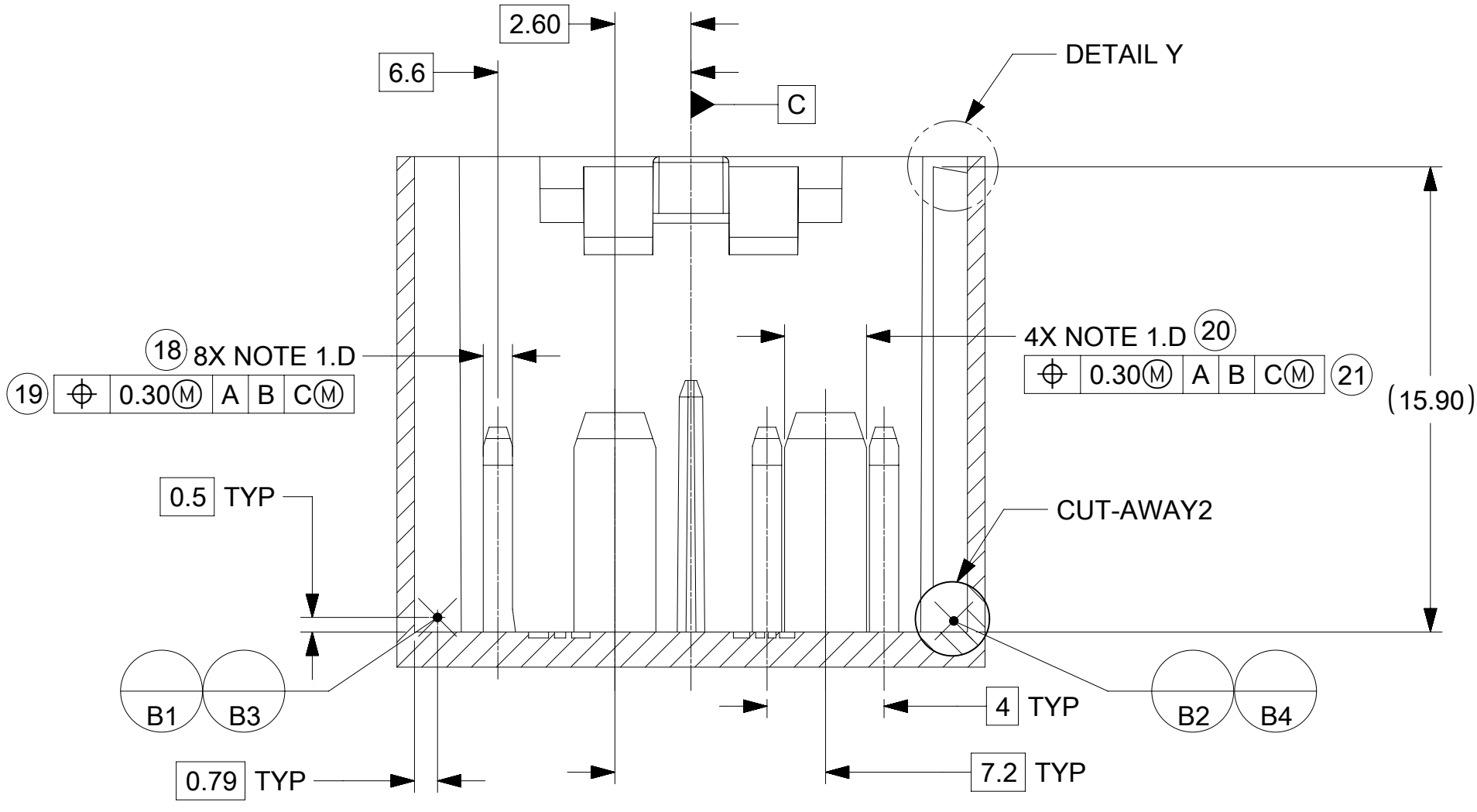
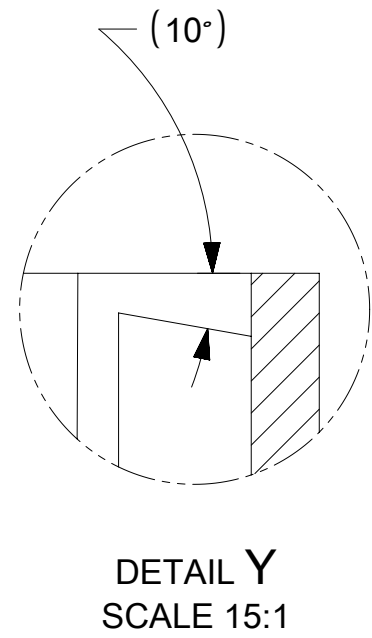
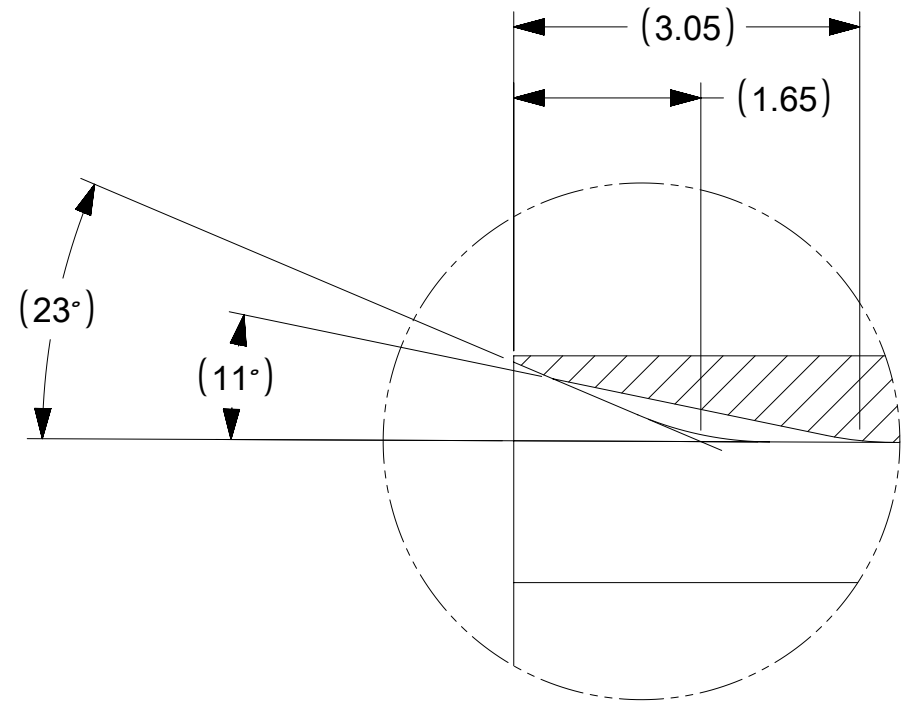
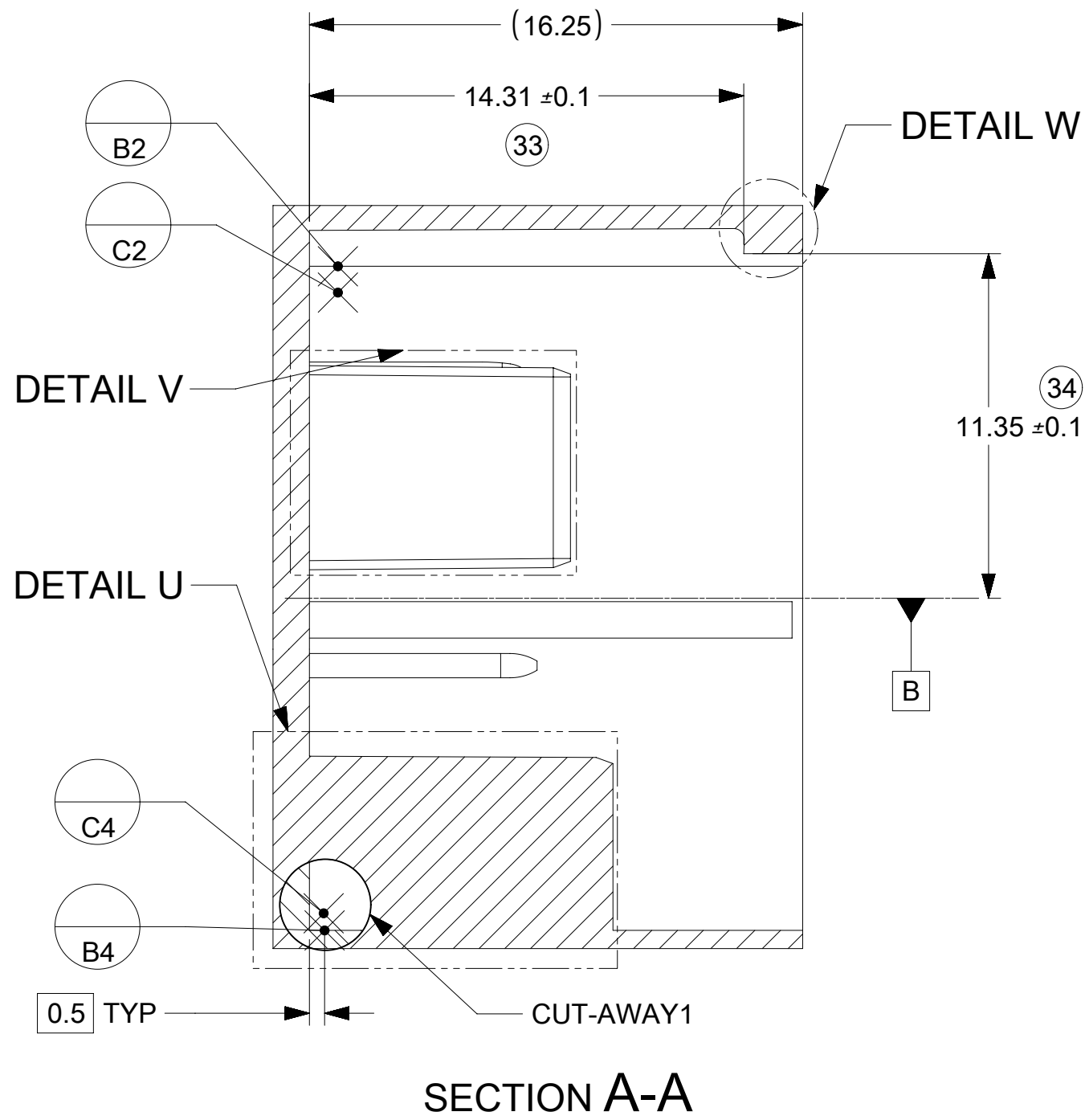
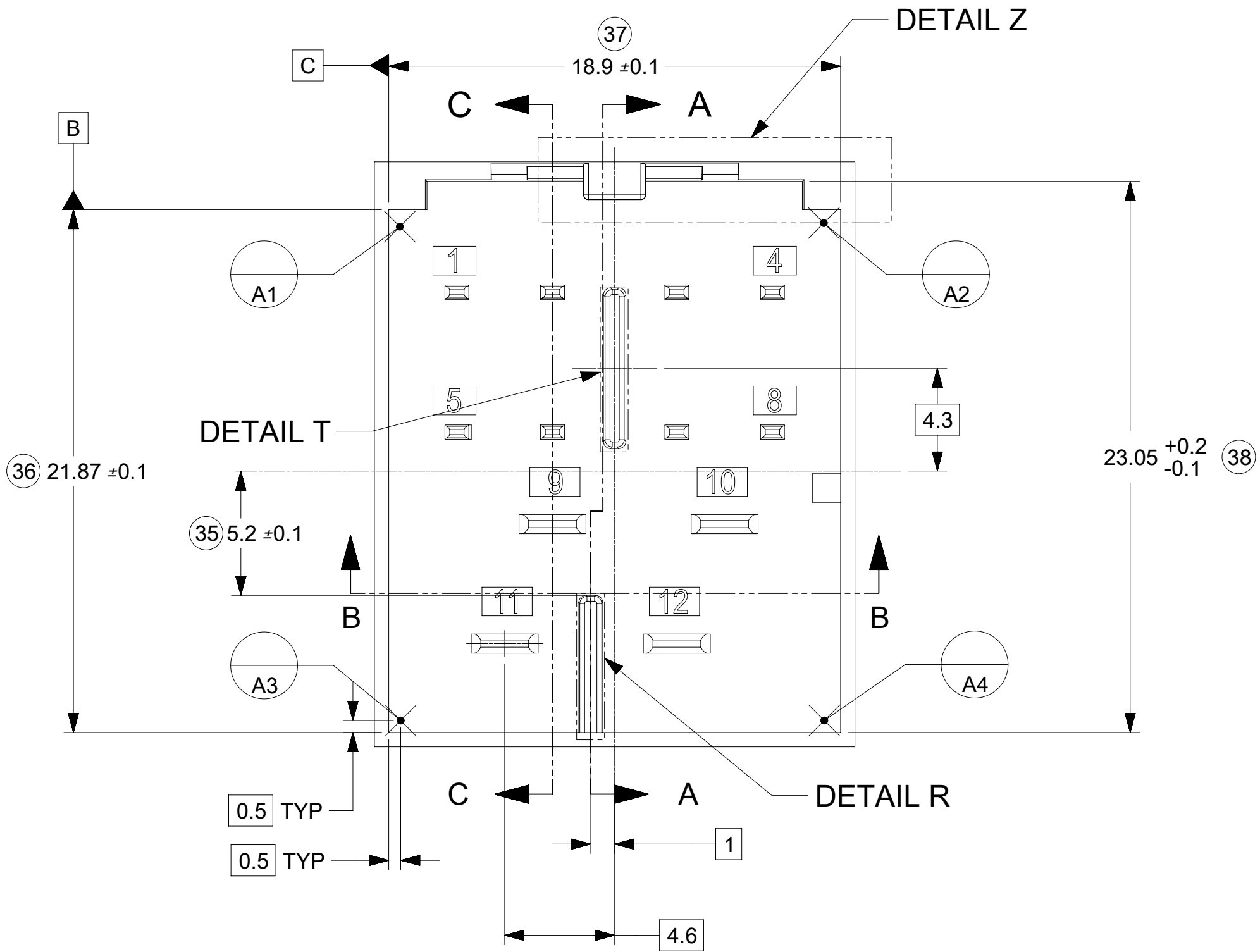
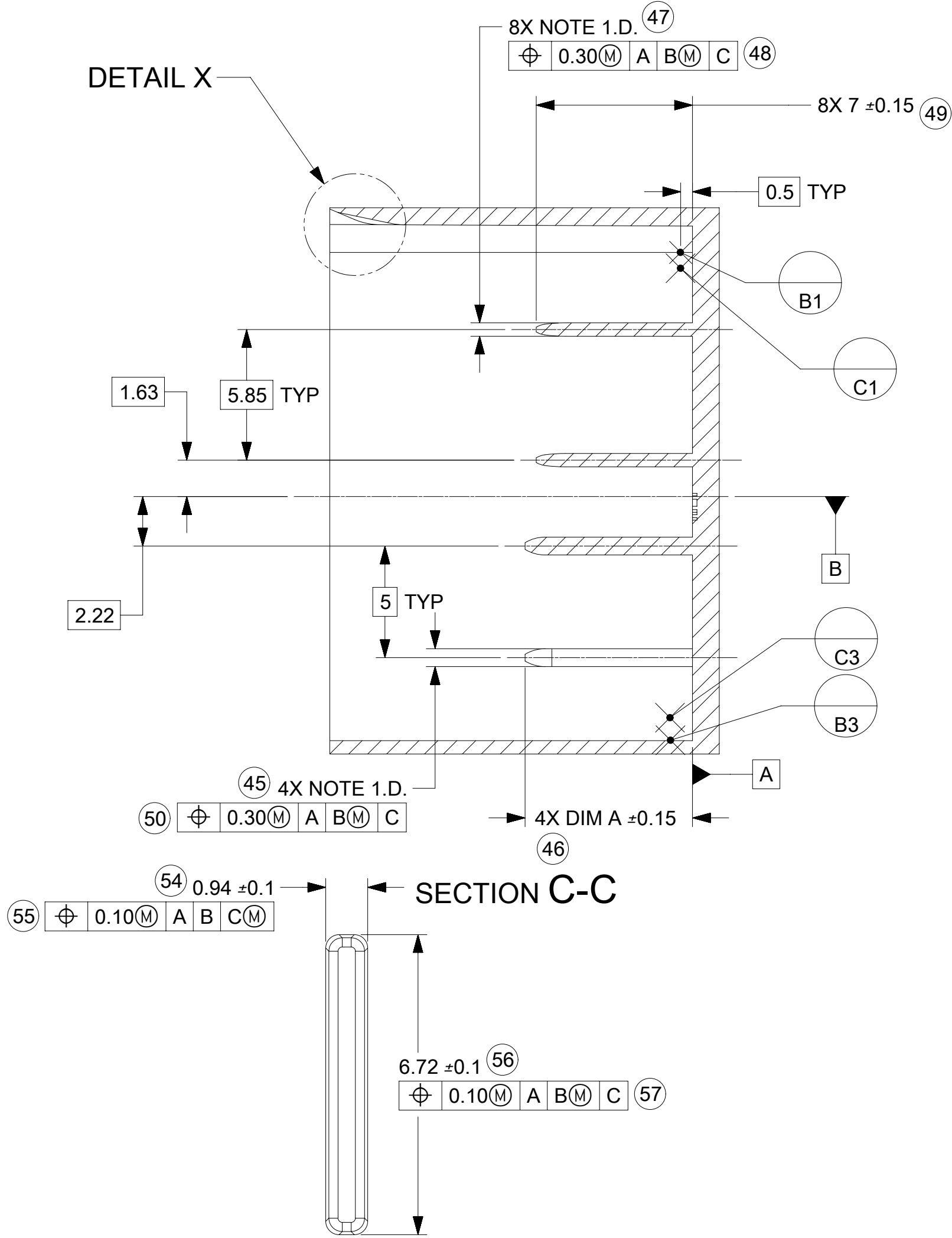
INTERFACE KEY #4
MATING CONNECTOR : LT GRAY

- 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 (120-T002 & 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 0.15MAX RAISED IN 0.25 MAX RECESSED 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.

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 07/31/2018
B	REMOVED 0.2MM FROM CONNECTOR LOCK TAB FEATURE
A3	DRAWING CLEANUP
A2	ADDED CIRCUIT IDs
A1	ADDED NOTE 1e, MKOWALSKY 7/7/2017
7	GEOMETRY UPDATED, SPEMMARAJU 02/18/2016
6	UAU2015-1446 , SAP#10681629 , JCONDON 03/25/2015

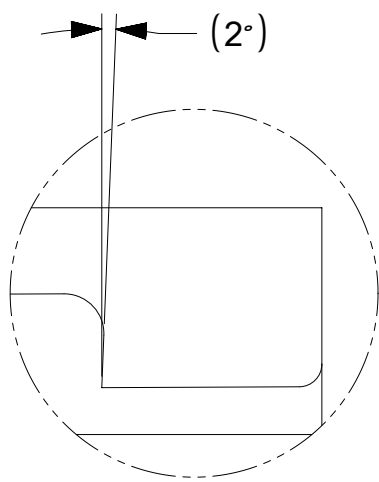
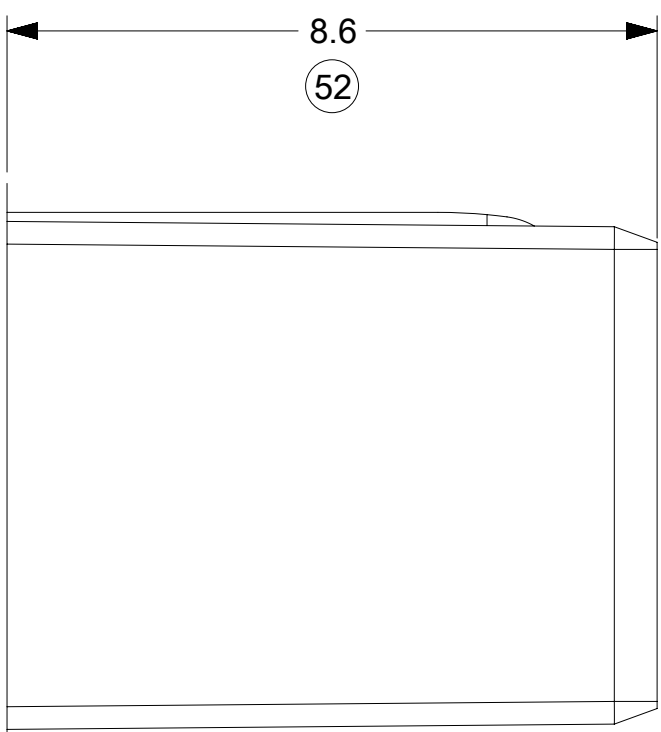
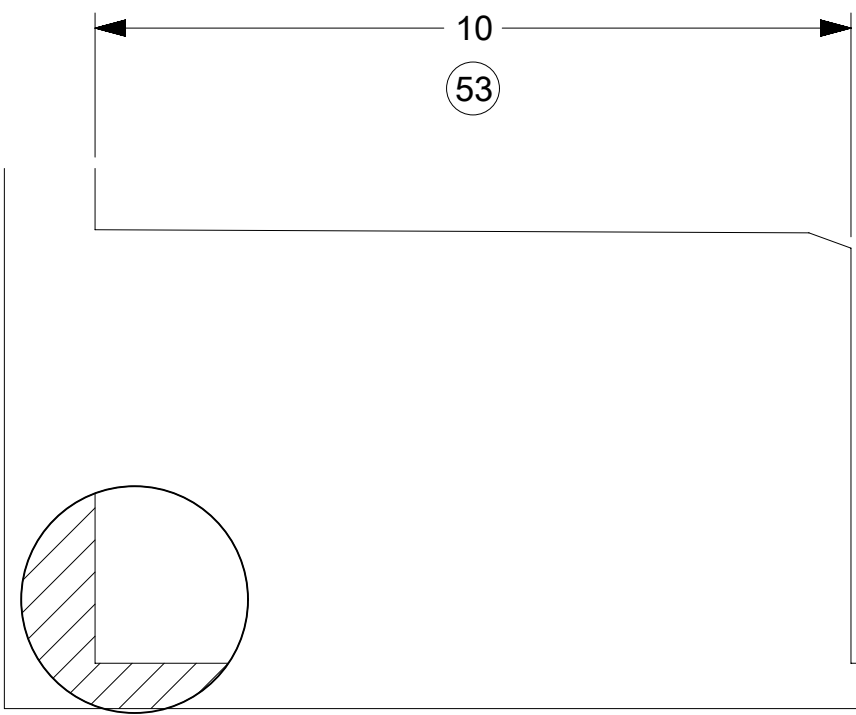
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
= 0	DIMENSION UNITS	SCALE	CURRENT REV DESC: ADDED 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1		
= 0	mm				
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 626144 DRWN: JCONDON 2019/10/08 CHK'D: DLANGOLF 2019/10/22 APPR: JCONDON 2019/10/23		
= 0	ANGULAR TOL	± °			
= 0	4 PLACES	±	INITIAL REVISION: DRWN: SPEMMARAJU 2015/10/27 APPR: KDEKOSKI 2016/03/24		
= 0	3 PLACES	±			
= 0	2 PLACES	±	THIRD ANGLE PROJECTION 		
= 0	1 PLACE	±			
= 0	0 PLACES	±	DRAWING	SERIES	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		D-SIZE	160026	
= 0					

molex			12WAY STAK50H INTERFACE DRAWING		
PRODUCT CUSTOMER DRAWING					
DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
SD-160026-002		PSD	000	C	
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
		GENERAL MARKET		1 OF 3	



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



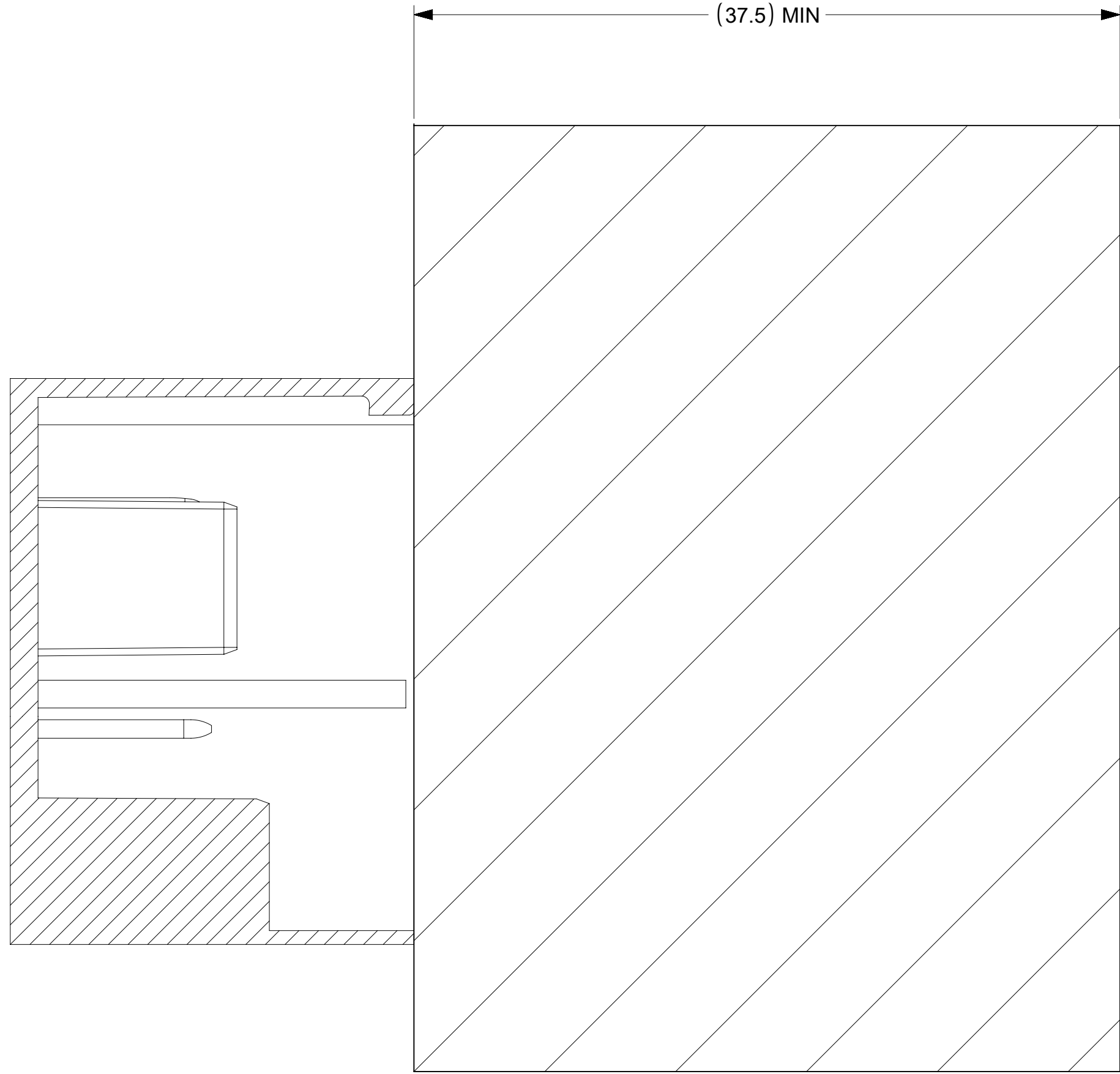
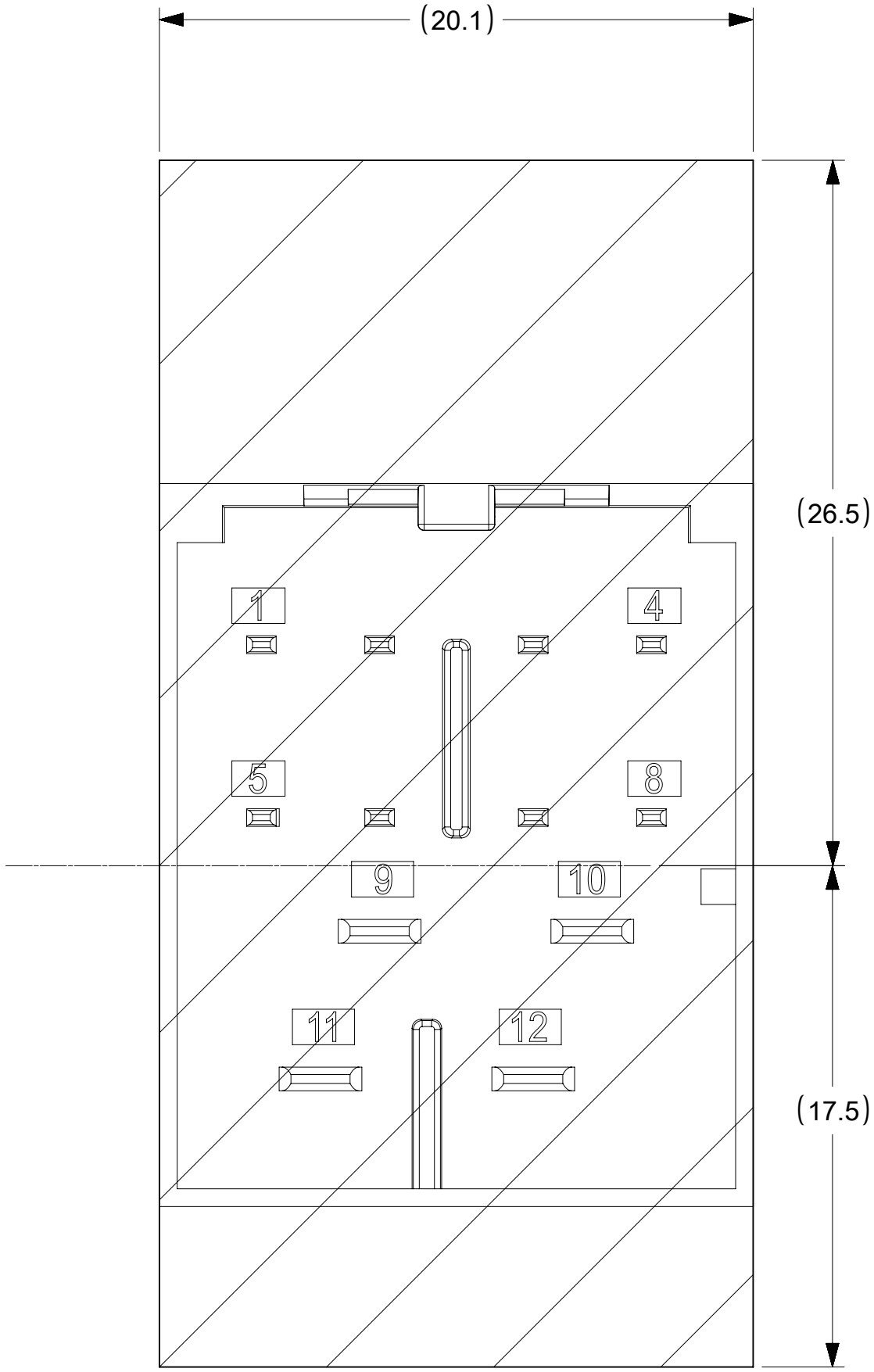
DETAIL T
SCALE 10:1

DETAIL R
SCALE 10:1

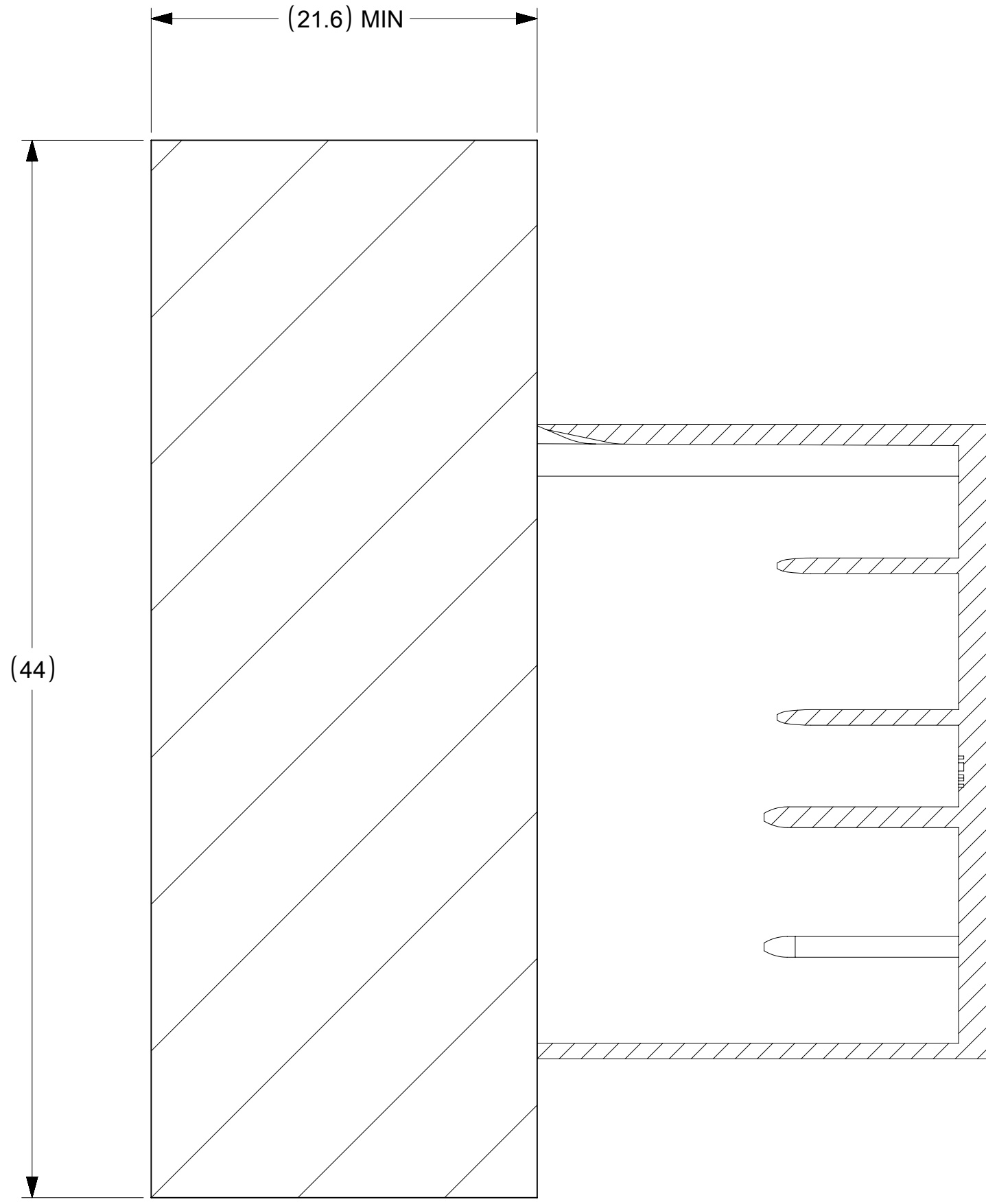
SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS										SCALE									
= 0										mm									
= 0										GENERAL TOLERANCES (UNLESS SPECIFIED)									
= 0										ANGULAR TOL ±									
= 0										4 PLACES									
= 0										3 PLACES									
= 0										2 PLACES									
= 0										1 PLACE									
= 0										0 PLACES									
= 0										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
= 0										THIRD ANGLE PROJECTION									
= 0										DRAWING									
= 0										D-SIZE									
= 0										SERIES									
= 0										160026									
= 0										CURRENT REV DESC: ADDED 2.8MM BLADE LENGTH VARIANT FOR MATE FORCE REQUIREMENT ADDED NOTE 1.E.1									
= 0										EC NO: 626144									
= 0										DRWN: JCONDON 2019/10/08									
= 0										CHK'D: DLANGOLF 2019/10/22									
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= 0										GENERAL MARKET									
= 0										SHEET NUMBER									
= 0										2 OF 3									

DOCUMENT STATUS	P1	RELEASE DATE	2019/10/23	15:15:02
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← (37.5) MIN →



← (21.6) MIN →



DOCUMENT STATUS	P1	RELEASE DATE	2019/10/23	15:15:02
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