

产品编号：[1600280015](#)

Product Description：stAK50h Hybrid
 Receptacle, 32 Circuits, Key 5, Rib Option
 B, Pink, Bag

系列号：160028

状态：Active

Product Category：Connector Housings



文件和资源

图纸

[图纸 1600280015_sd.pdf](#)

3D 模型和设计文件

[3D模型 1600280015_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	Compliant
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	160028
说明	stAK50h Hybrid Receptacle, 32 Circuits, Key 5, Rib Option B, Pink, Bag
应用	Automotive, Power, Signal, Wire-to-Board
产品系列	stAK50h Connection System
产品名称	stAK50h
UPC	193264073177

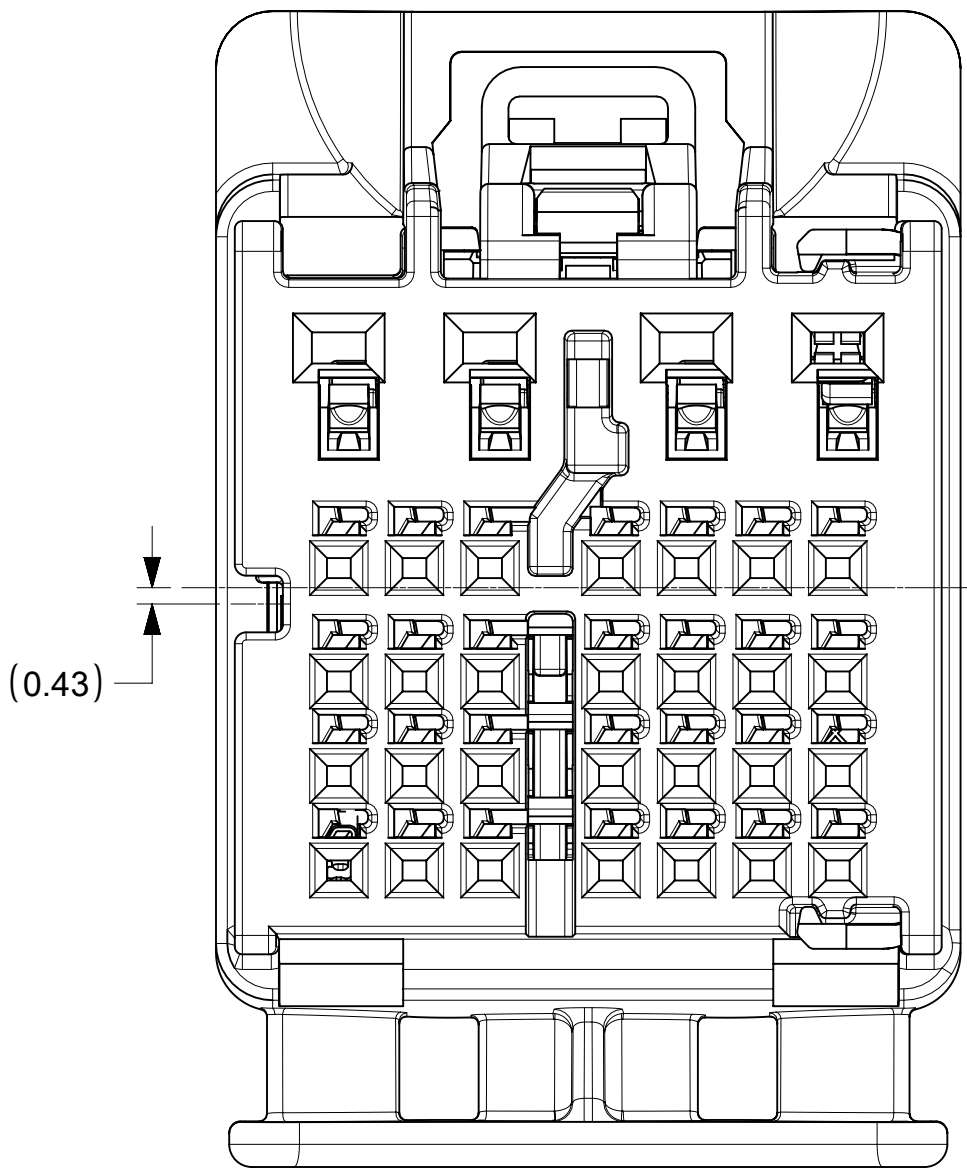
物理

电路数（最多）	32
颜色-树脂	粉红色
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. 401/g
行数	5
包装形式	Bag
面板安装式	否
间距 - 插配接口	2. 00mm, 4. 00mm
间距 - 终端界面	2. 00mm, 4. 00mm
有极性的插配件	是
端口	1
可堆叠的	否

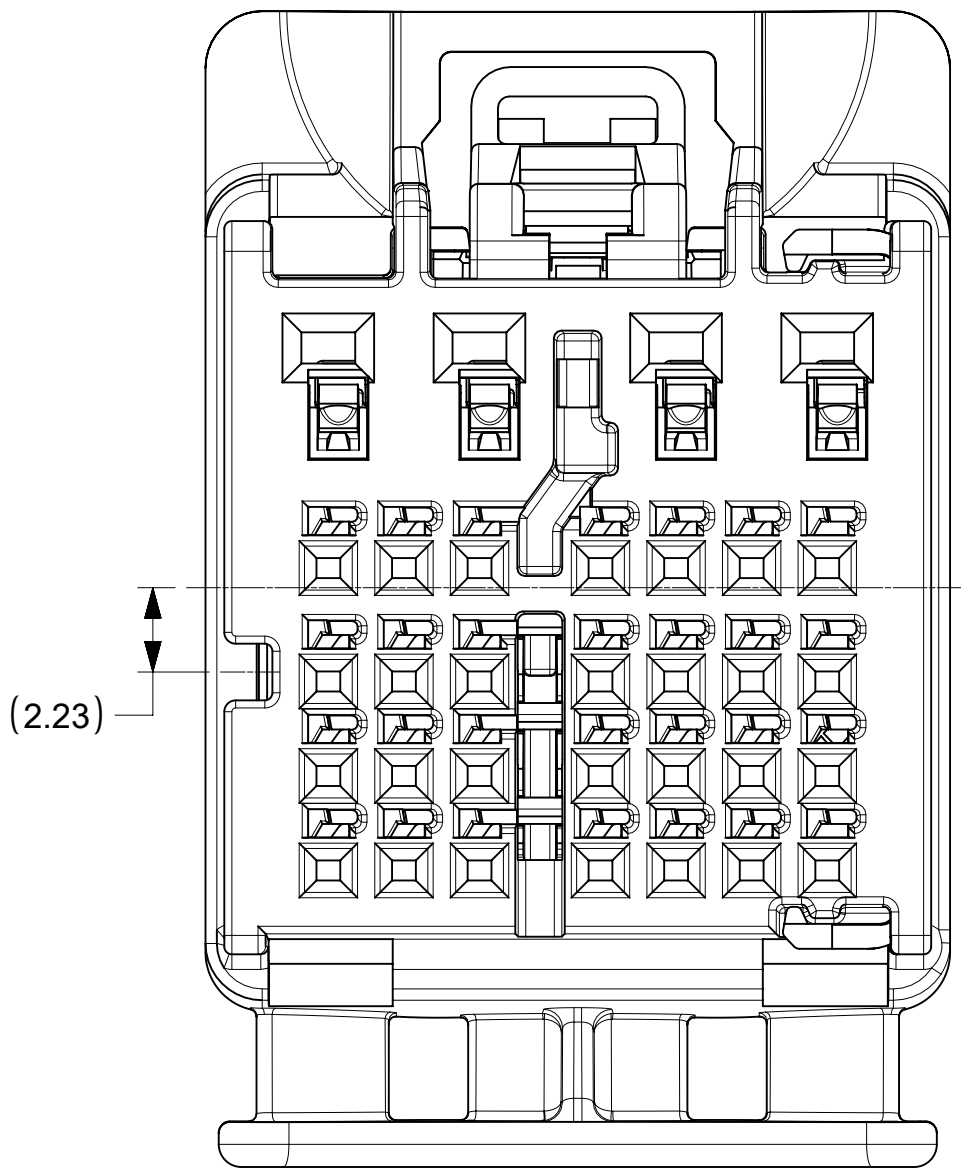
运行温度范围	-40° to +105° C LV-214, -40° to +85° C GMW3191 June2012
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可连接使用部件

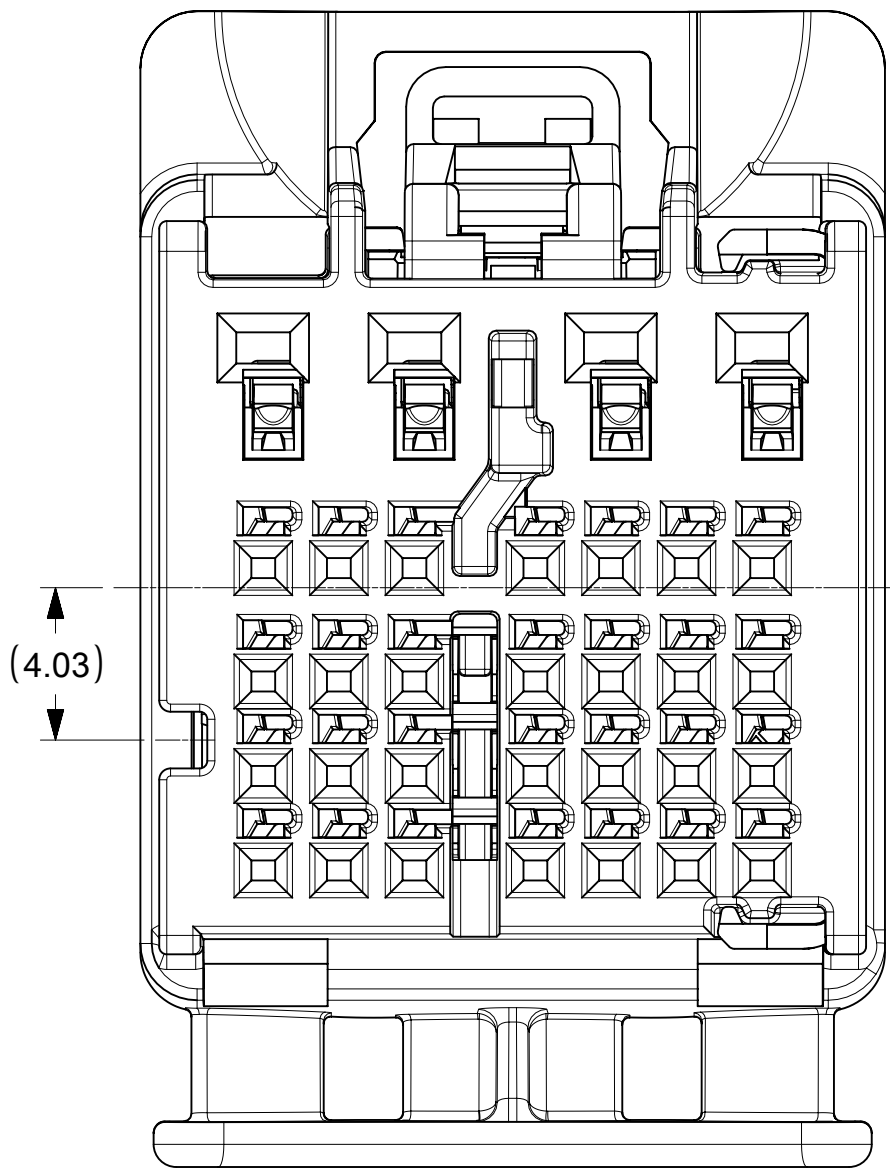
描述	产品编号
TAK50 Unsealed Receptacle Terminals	<u>200096</u>
可装的端子等部件	Aptiv OCS 1.20mm Terminal or JST MSA 1.20mm Terminal



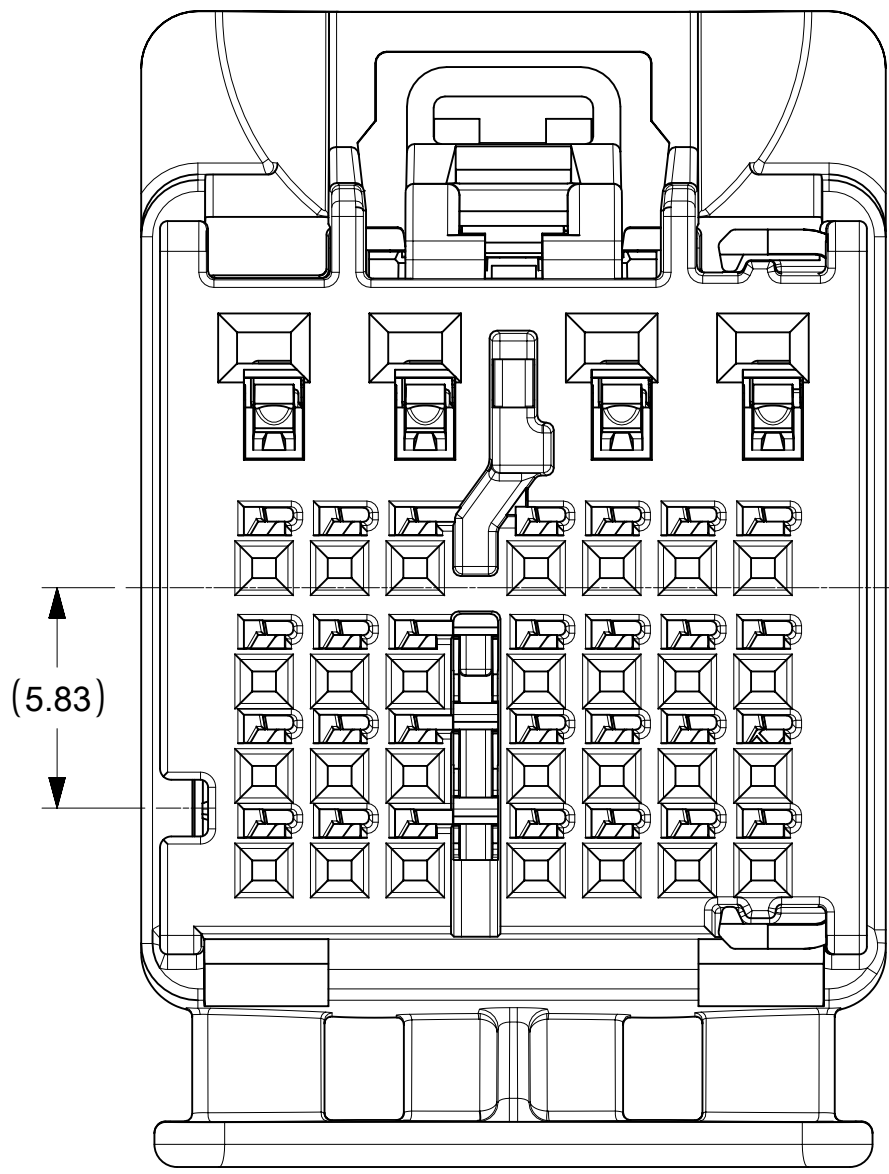
32 WAY CONNECTOR ASSEMBLY
KEY 1 & KEY 5



32 WAY CONNECTOR ASSEMBLY
KEY 2 & KEY 6



32 WAY CONNECTOR ASSEMBLY
KEY 3 & KEY 7



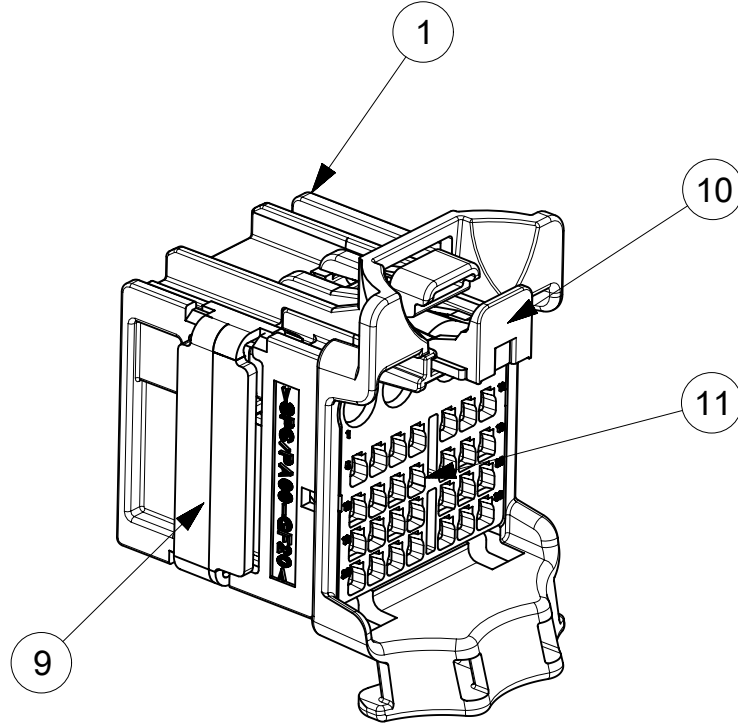
32 WAY CONNECTOR ASSEMBLY
KEY 4 & KEY 8

- 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)

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)	
35072403	TIN PLATING	DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2	
35072404	TIN PLATING	DELPHI	0.75 - 0.8		
35072405	TIN PLATING	DELPHI	0.8 - 1.0		
35072406	TIN PLATING	DELPHI	1.25 - 1.5		
SMSA-A031T-M1.2	TIN PLATING	JST	0.5 - 0.75	MSA 1.2mm TERMINAL	
SMSA-A041T-M1.2	TIN PLATING	JST	1.0 - 1.5	MSA 1.2mm TERMINAL	

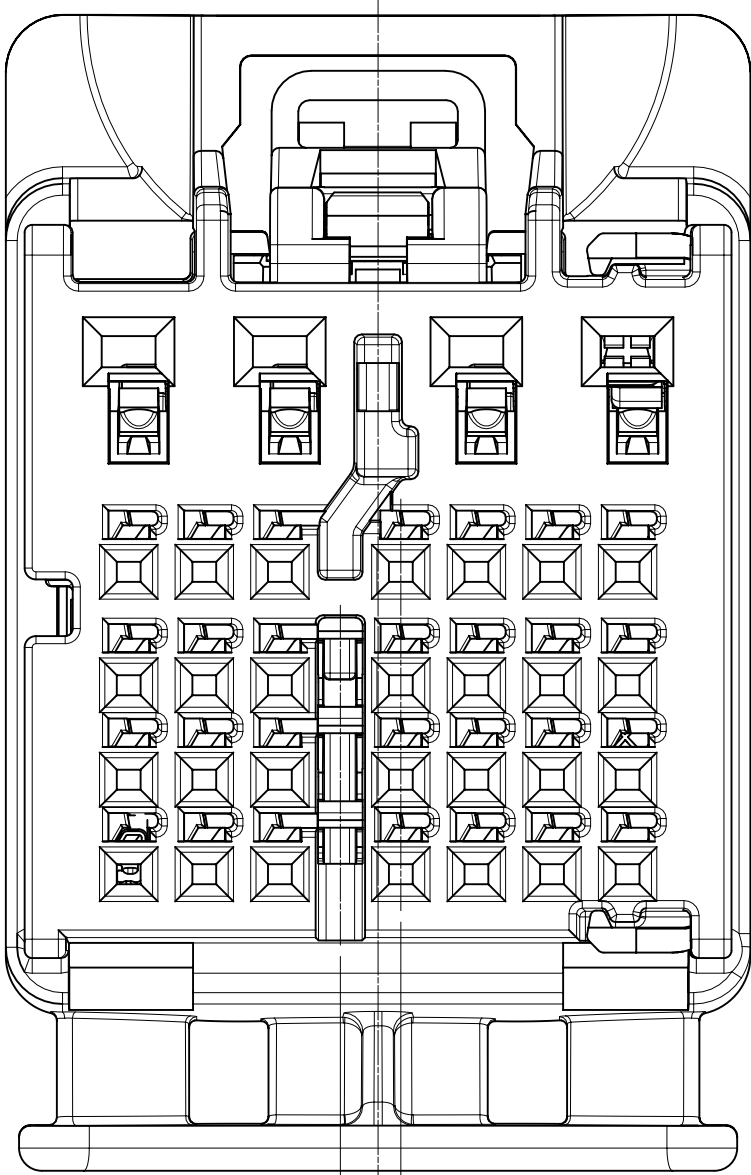
ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	RIB OPTION	NO OF ITEMS REQUIRED									
1	OUTER SHROUD - KEY 1	BLACK	SPS/PA66-GF20	3.2	A	1									
2	OUTER SHROUD - KEY 2	BLUE	SPS/PA66-GF20	3.2	A		1								
3	OUTER SHROUD - KEY 3	DARK GRAY	SPS/PA66-GF20	3.2	A			1							
4	OUTER SHROUD - KEY 4	PURPLE C	SPS/PA66-GF20	3.2	A				1						
5	OUTER SHROUD - KEY 5	PINK B	SPS/PA66-GF20	3.2	B					1					
6	OUTER SHROUD - KEY 6	TBD	SPS/PA66-GF20	3.2	B						1				
7	OUTER SHROUD - KEY 7	LIGHT BROWN	SPS/PA66-GF20	3.2	B							1			
8	OUTER SHROUD - KEY 8	TBD	SPS/PA66-GF20	3.2	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	1.75	N/A	1	1	1	1						
12	INNER HOUSING	STONE GRAY	SPS/PA66-GF20	1.75	N/A					1	1	1	1		

MOLEX ASSEMBLY PART NO.'S		
1600280011	KEY 1	
1600280012	KEY 2	
1600280013	KEY 3	
1600280014	KEY 4	
1600280015	KEY 5	
1600280016	KEY 6	
1600280017	KEY 7	
1600280018	KEY 8	

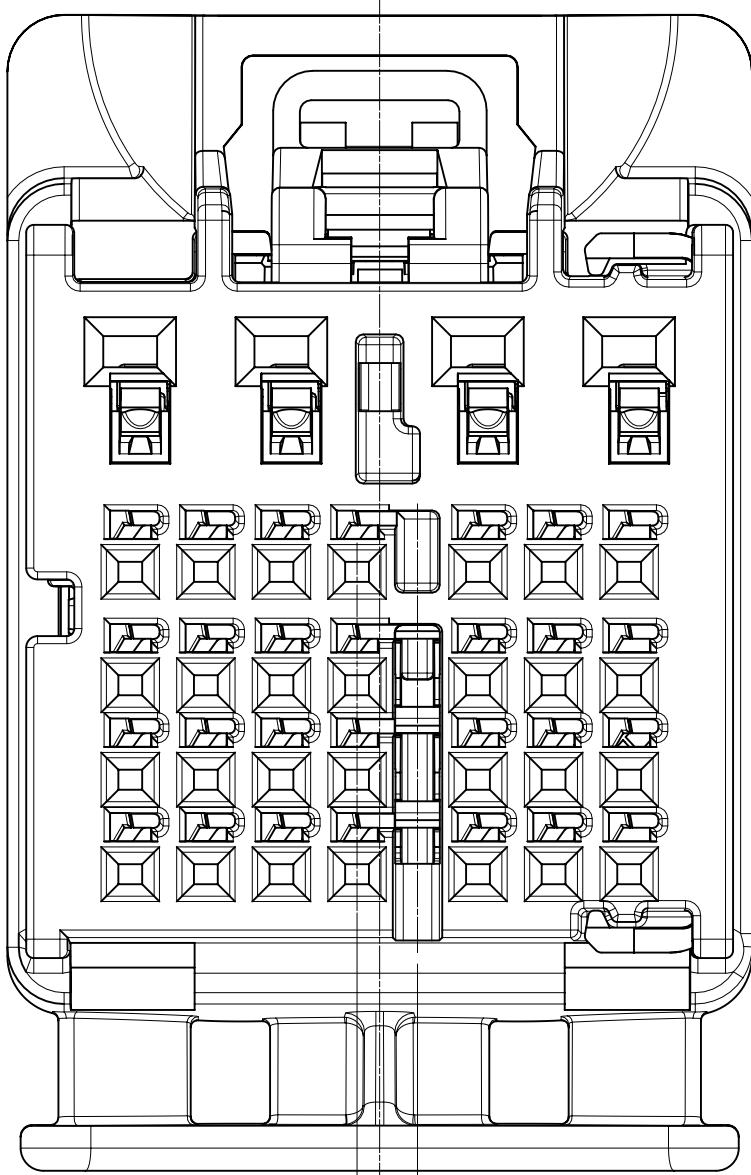


SCALE 2:1

RIB OPTION A



RIB OPTION B

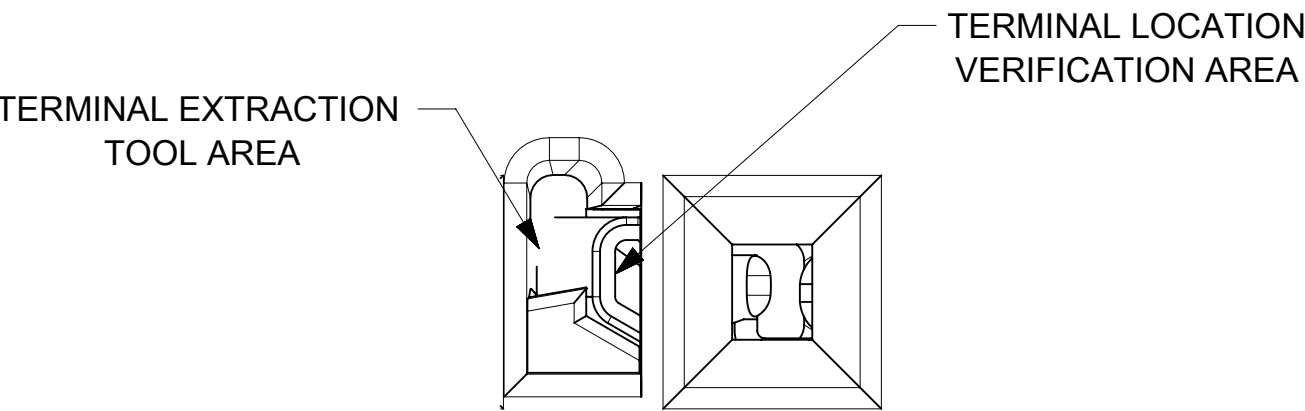


INSPECTION BALLOON NUMBER LOG			
PER DRAWING REVISION : A5			
LAST BALLOON NUMBER: 2			
ADDED BALLOON NUMBER: NONE			
DELETED BALLOON NUMBER: NONE			

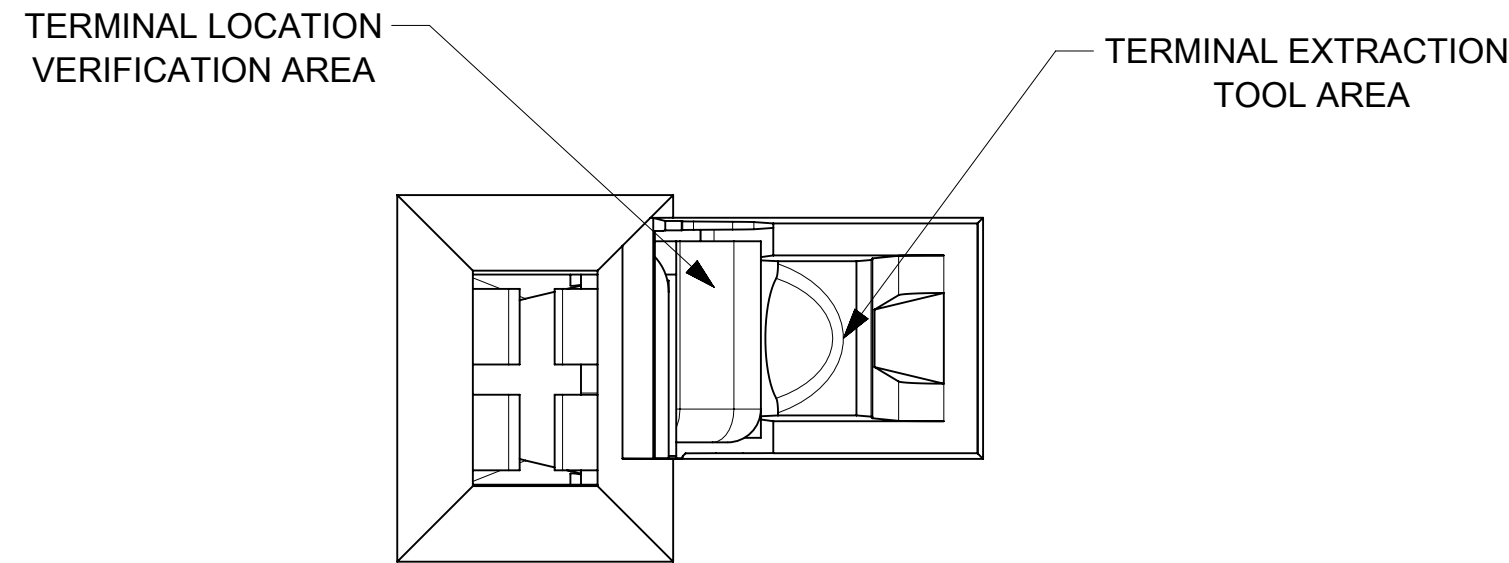
A5	UPDATED TAK50 TERMINAL PNS 21-July-2021 YPENG47 ECN 648438
A4	UPDATED DELPHI 1.2 TERMINAL PNS 13-Apr-2020 YPENG47 ECN 635661
REVISION	DESCRIPTION

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 TAK50 TERMINAL PNS				<div>molex</div> <div>32WAY STAK50H HYBRID ASSEMBLY CONNECTOR ASSEMBLY</div>											
		mm		5:1																	
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 648438 DRWN: YPENG47 2021/07/21 CHK'D: RCARLSON 2021/07/29 APPR: JCONDON 2021/08/02								PRODUCT CUSTOMER DRAWING							
	= 0																				
	= 0	ANGULAR TOL ± 3.0°				INITIAL REVISION: DRWN: RCARLSON 2019/02/15 APPR: JCONDON 2019/02/25				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION							
	= 0	4 PLACES ±								1600280011		PSD	000	A5							
	= 0	3 PLACES ±				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
	= 0	2 PLACES ± 0.3																			
	= 0	1 PLACE ± 0.3				D-SIZE		160028		SEE CHART		GENERAL MARKET		1 OF 2							
	= 0	0 PLACES ± 0.3																			

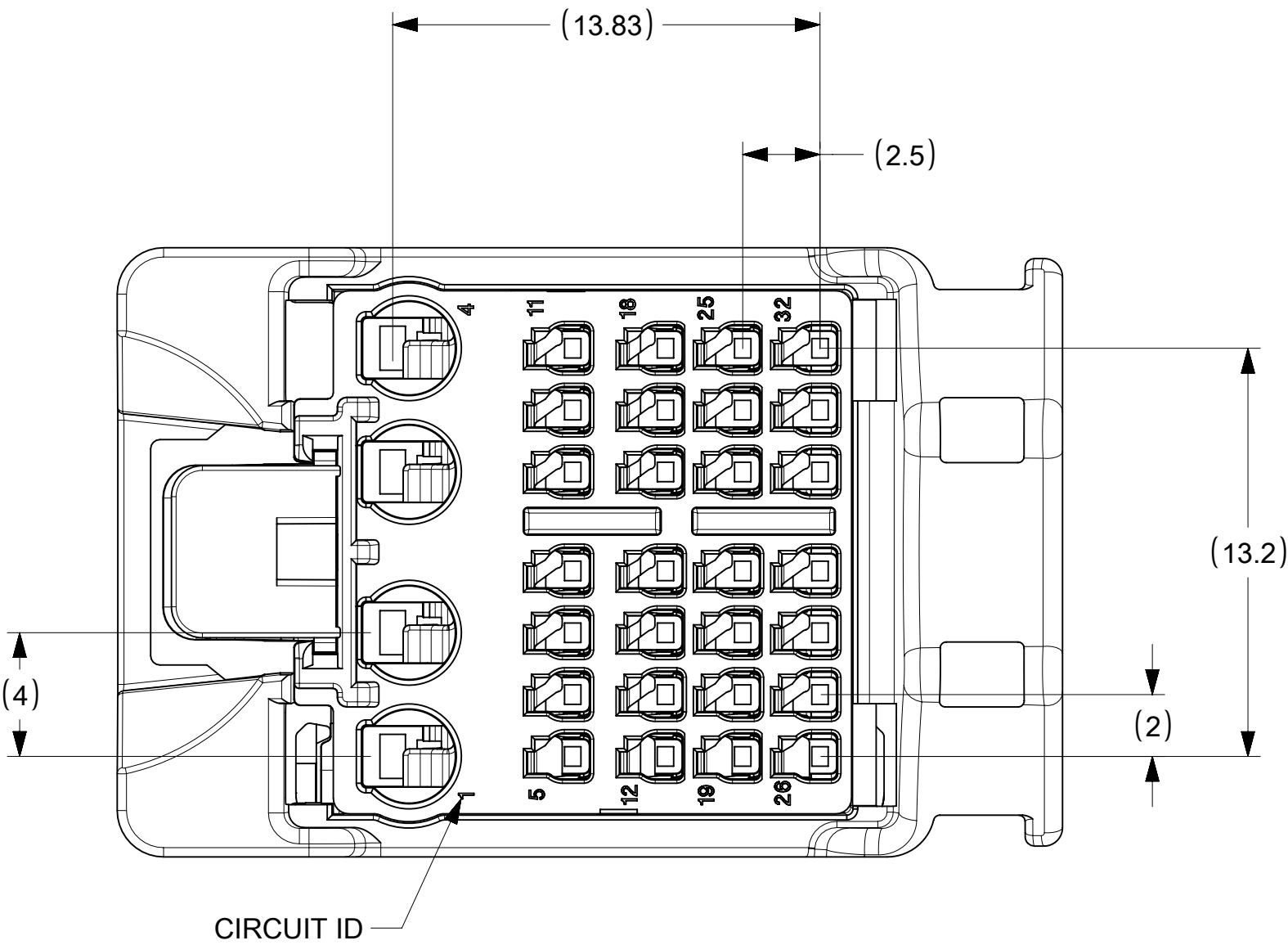
DOCUMENT STATUS	P1	RELEASE DATE	2021/08/02	13:46:02
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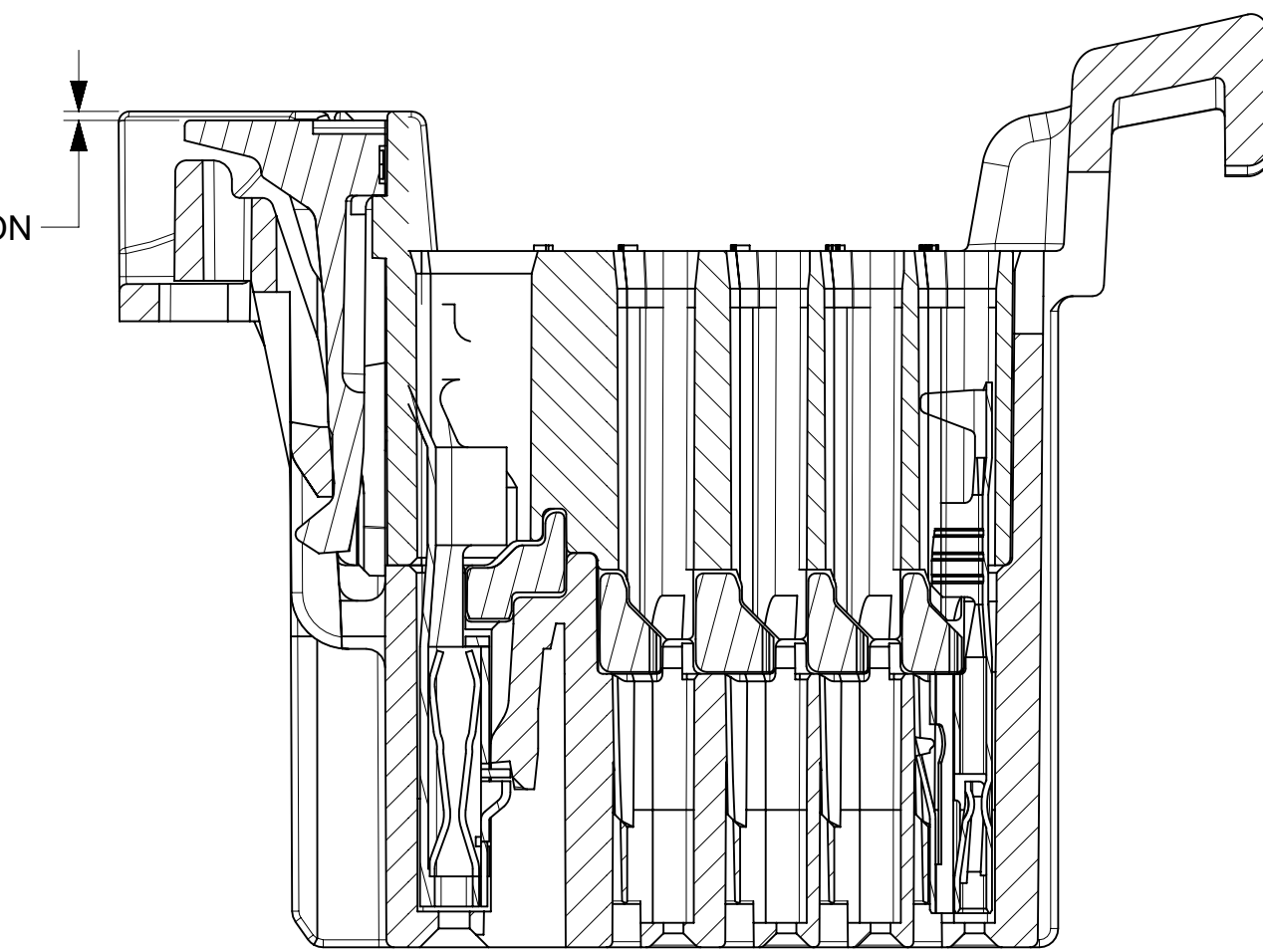
DETAIL A
SCALE 20:1



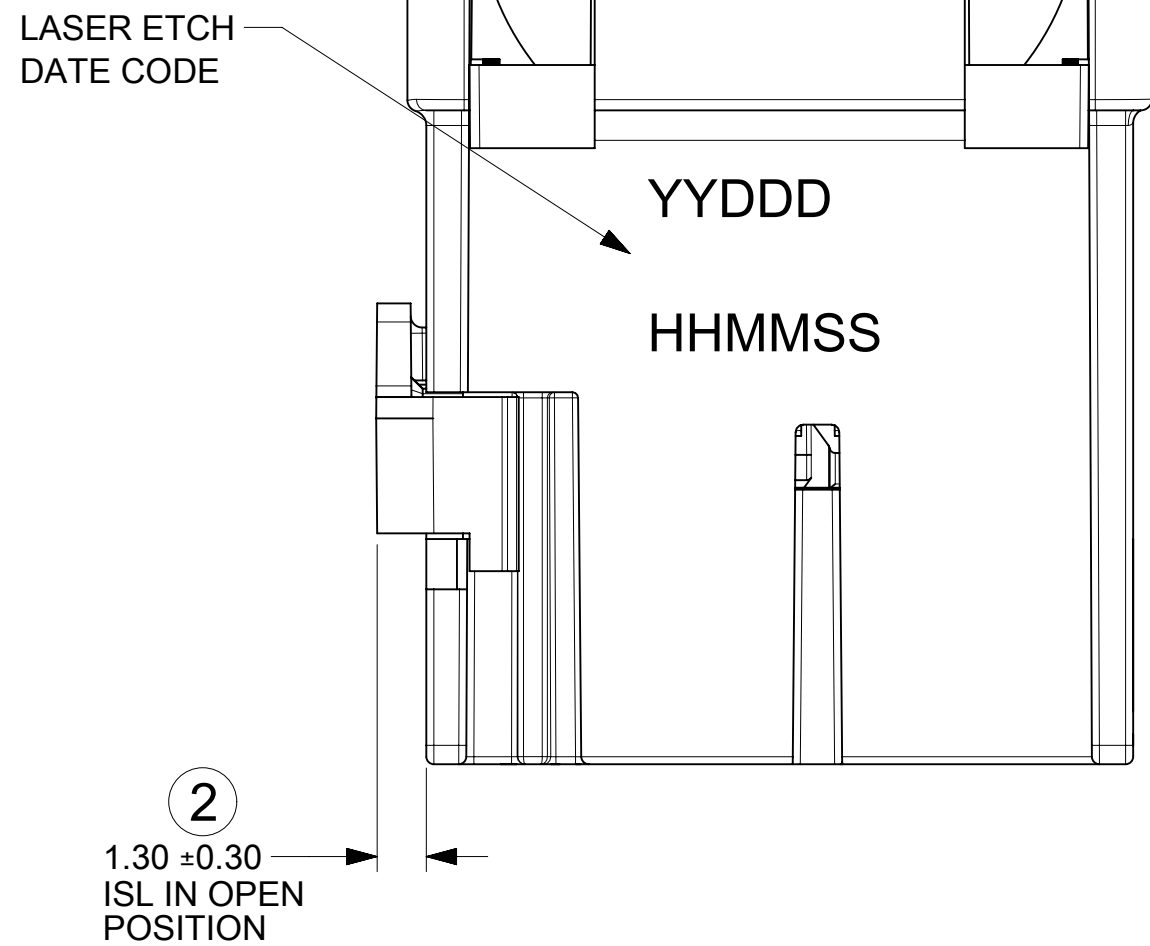
DETAIL B
SCALE 20:1



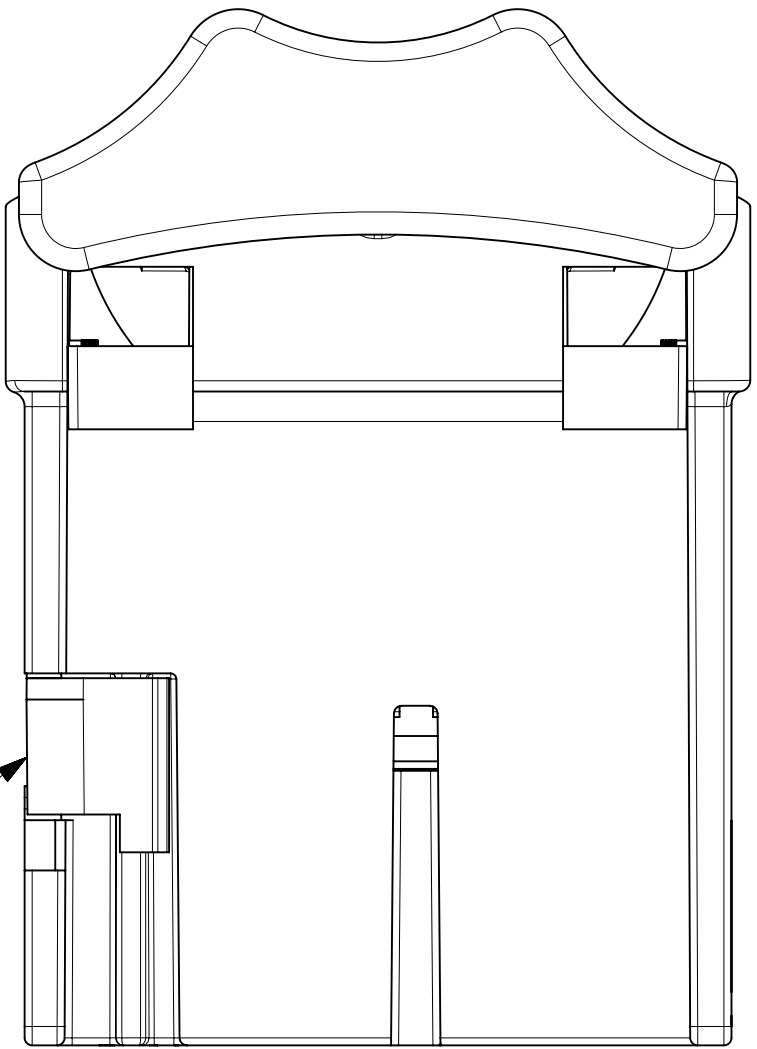
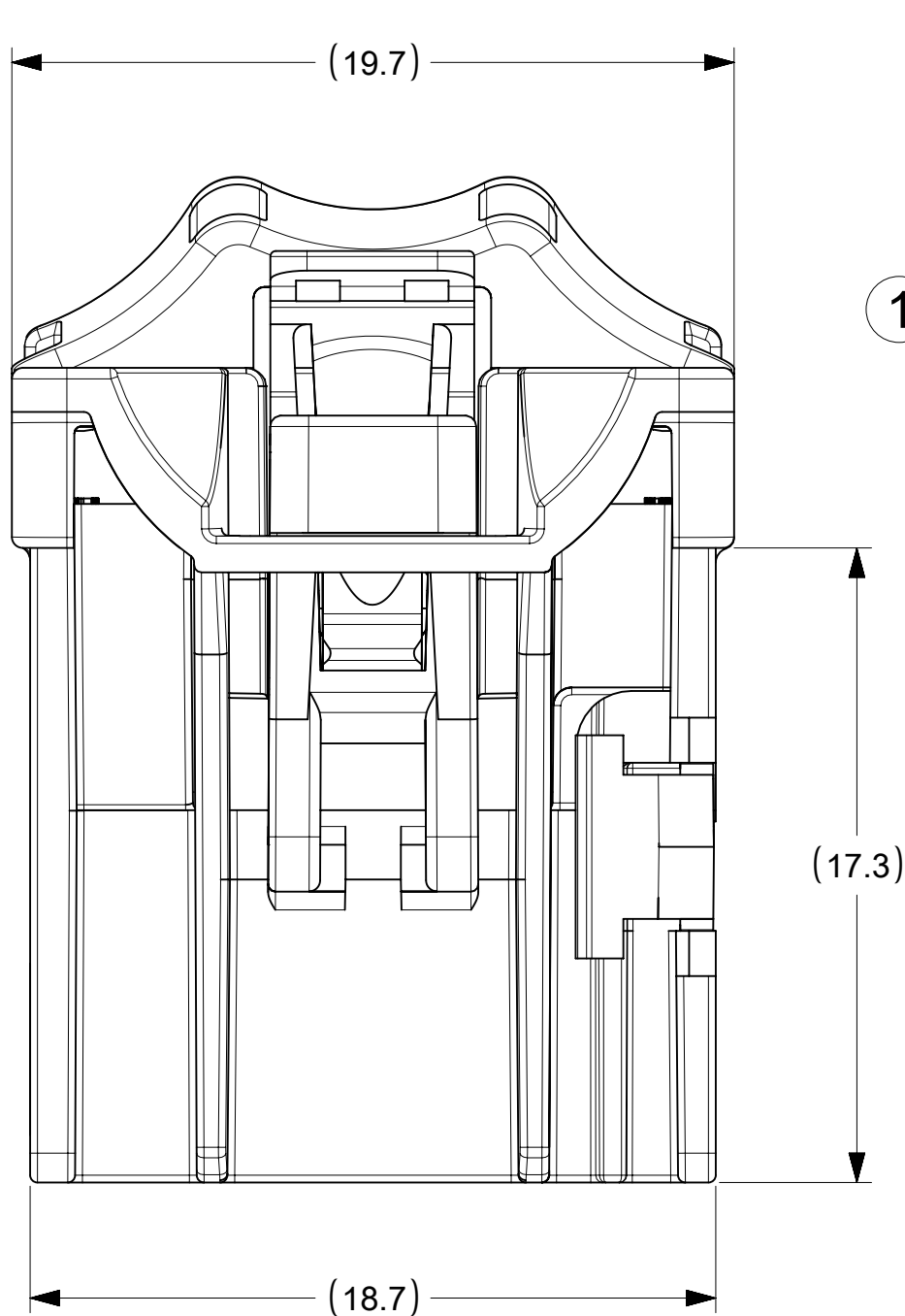
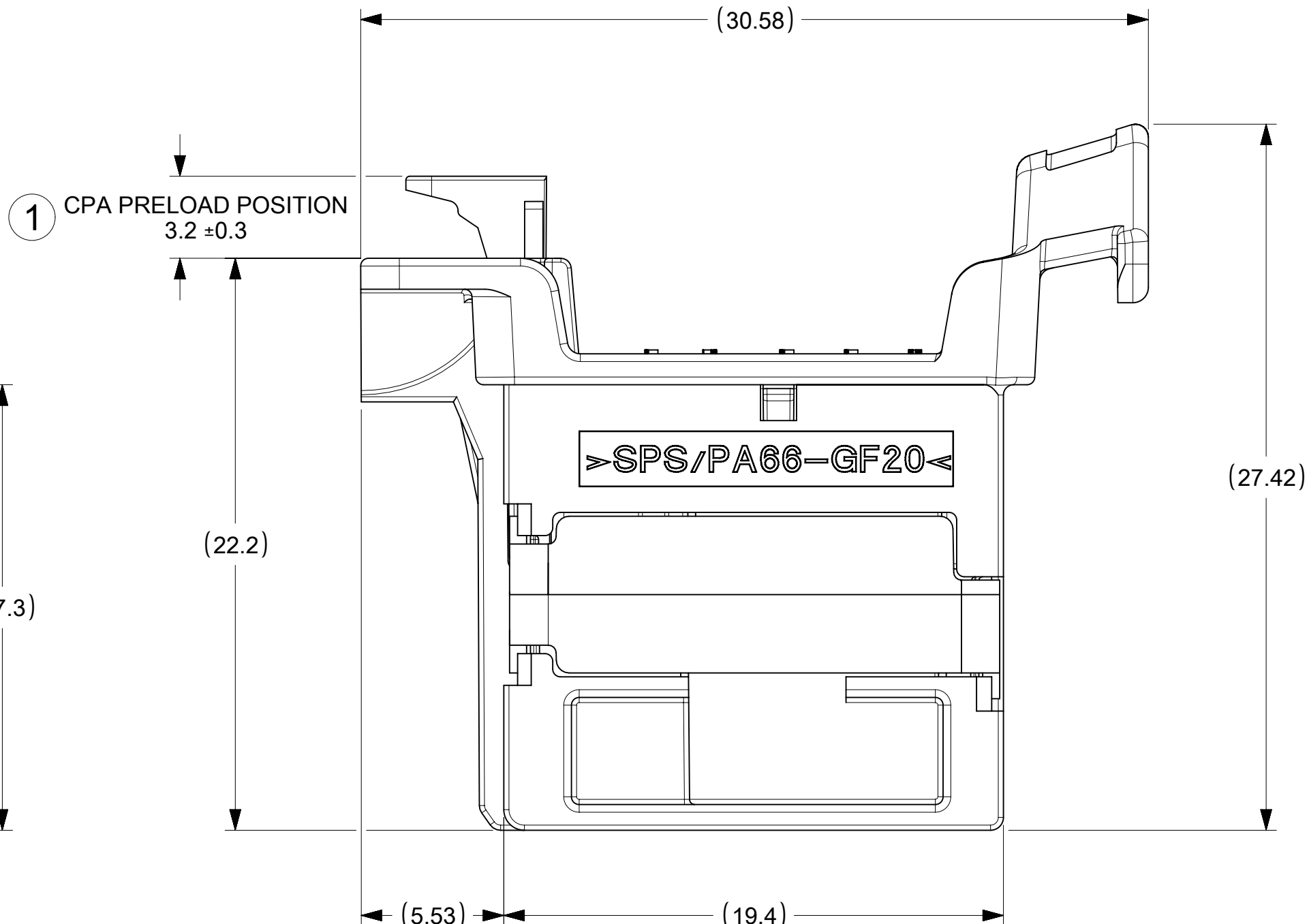
CPA FINAL POSITION
(0.24)
RECESSED



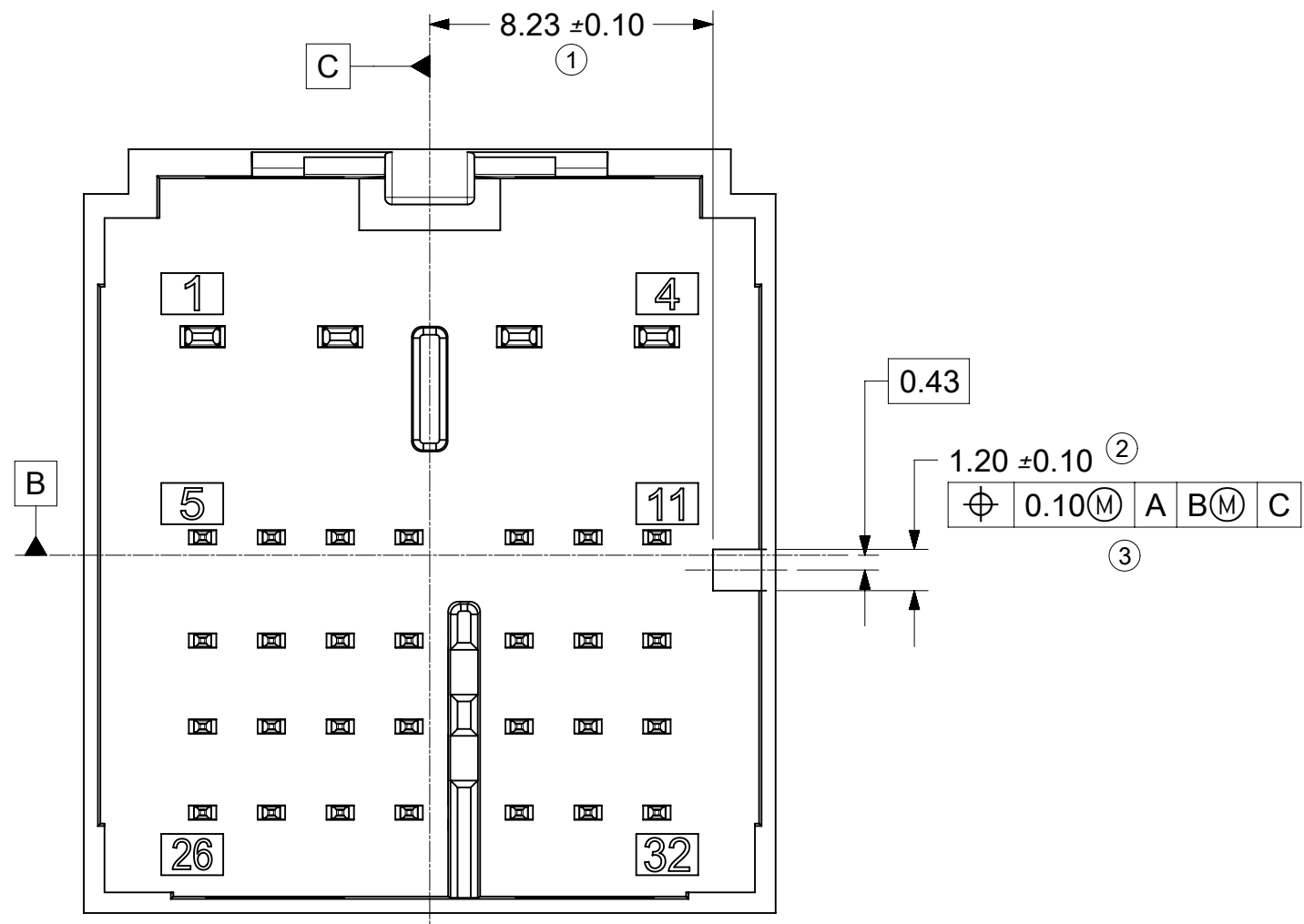
TERMINALS, ISL, AND CPA
SHOWN IN CLOSED POSITION
SECTION Z-Z



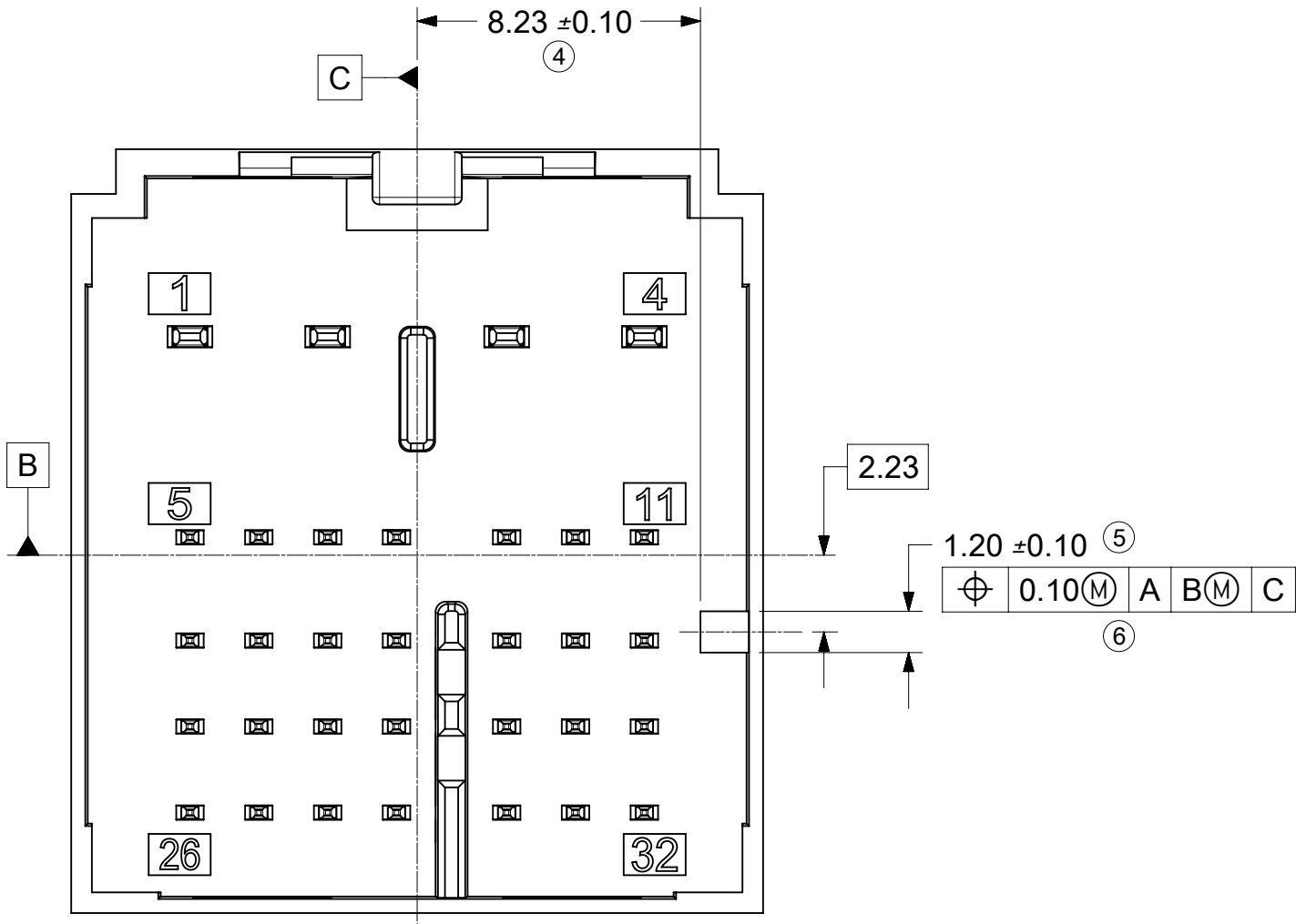
ISL IN CLOSED
POSITION



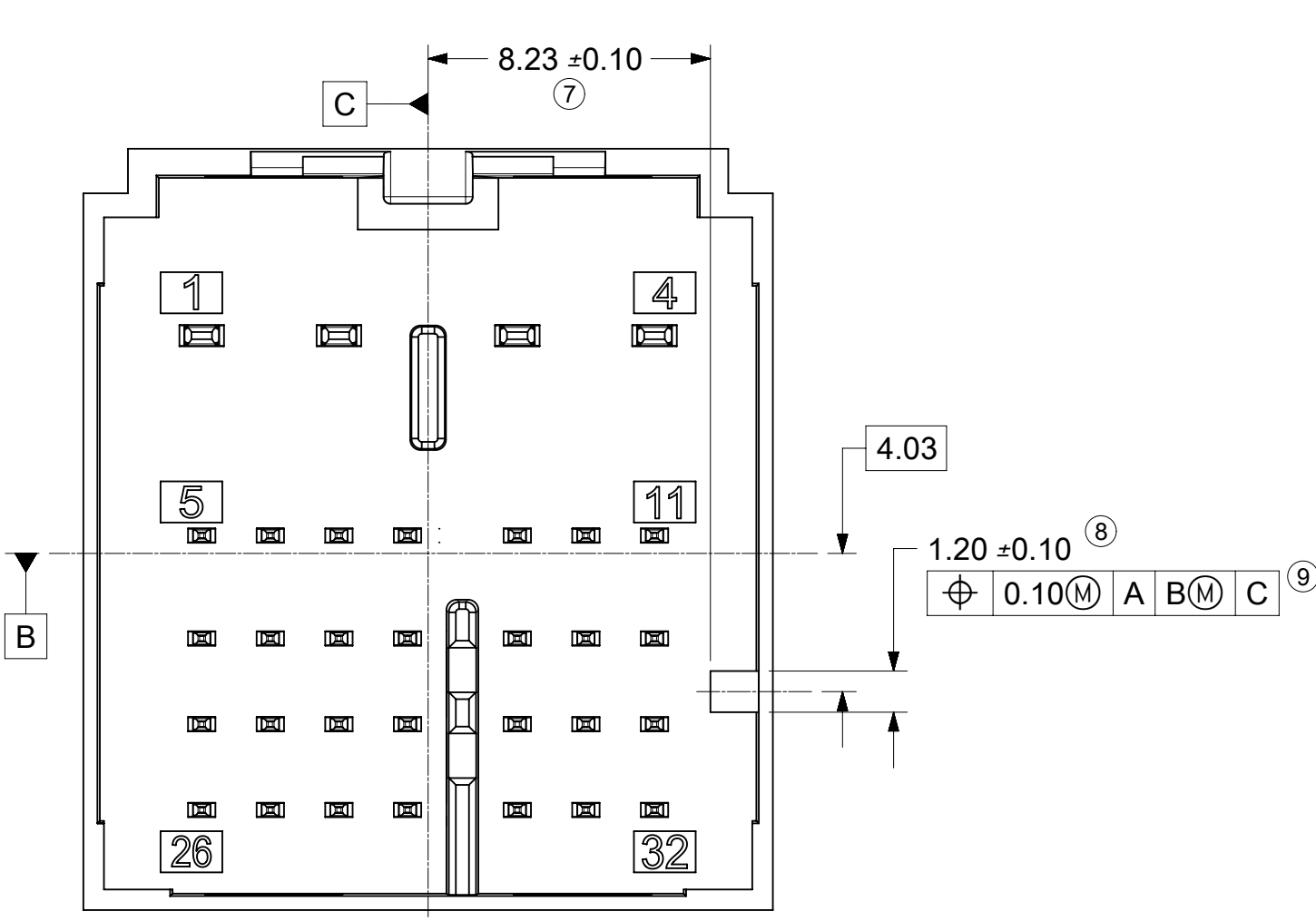
SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS										SCALE									
= 0										mm									
= 0										5:1									
= 0										GENERAL TOLERANCES (UNLESS SPECIFIED)									
= 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									
= 0										DRAWING D-SIZE									
= 0										SERIES 160028									
= 0										MATERIAL NUMBER SEE SHEET 1									
= 0										CUSTOMER GENERAL MARKET									
= 0										SHEET NUMBER 2 OF 2									



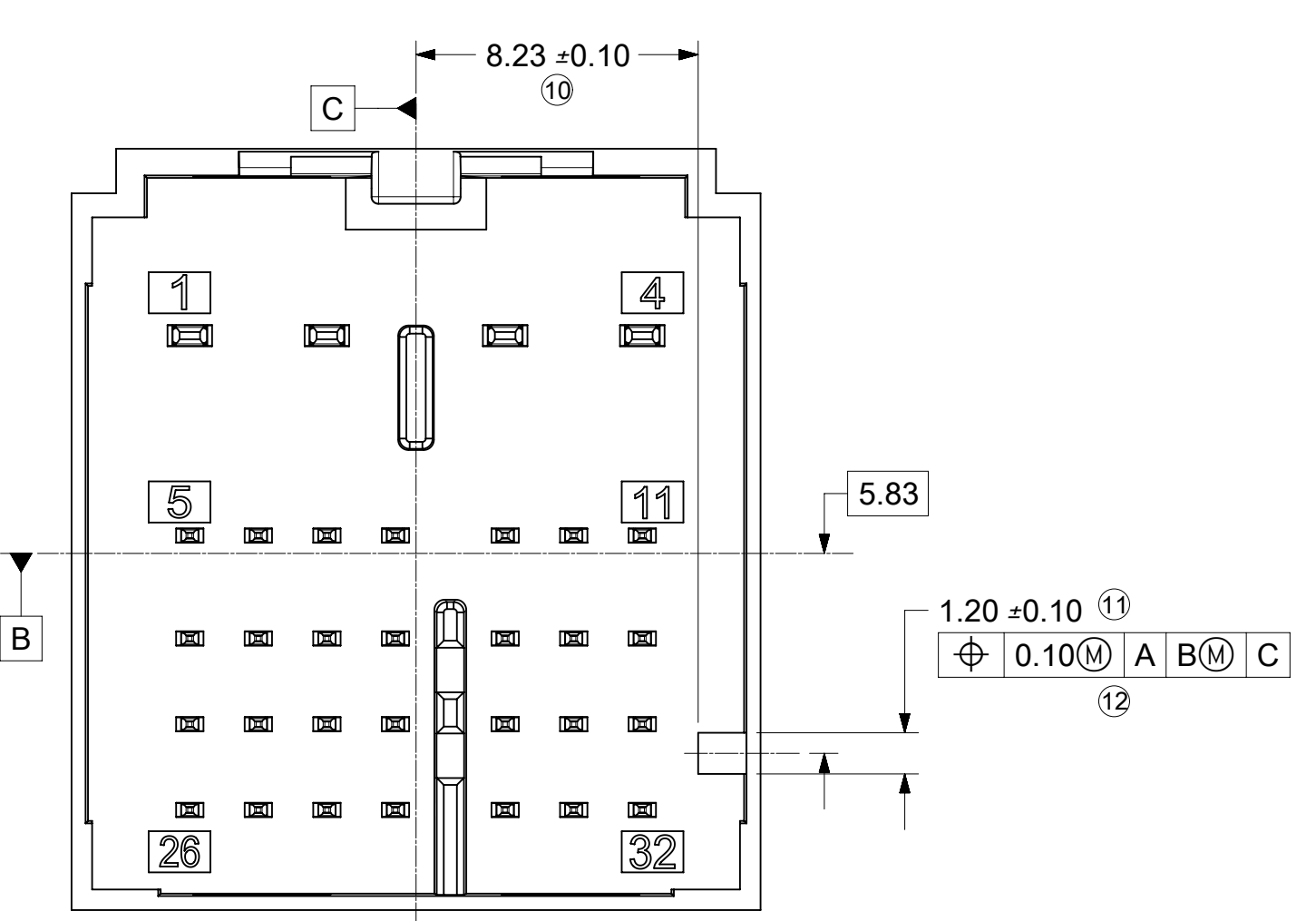
INTERFACE KEY 1 & KEY 5



INTERFACE KEY 2 & KEY 6



INTERFACE KEY 3 & KEY 7

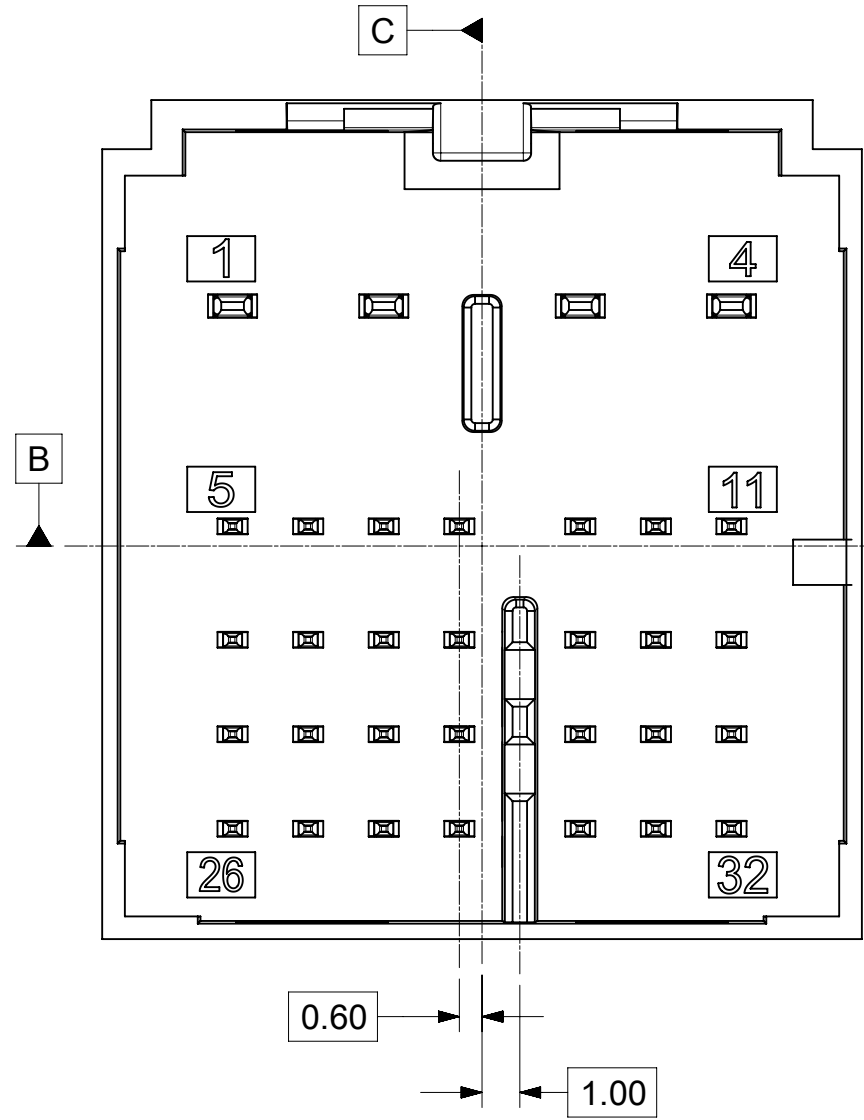


INTERFACE KEY 4 & KEY 8

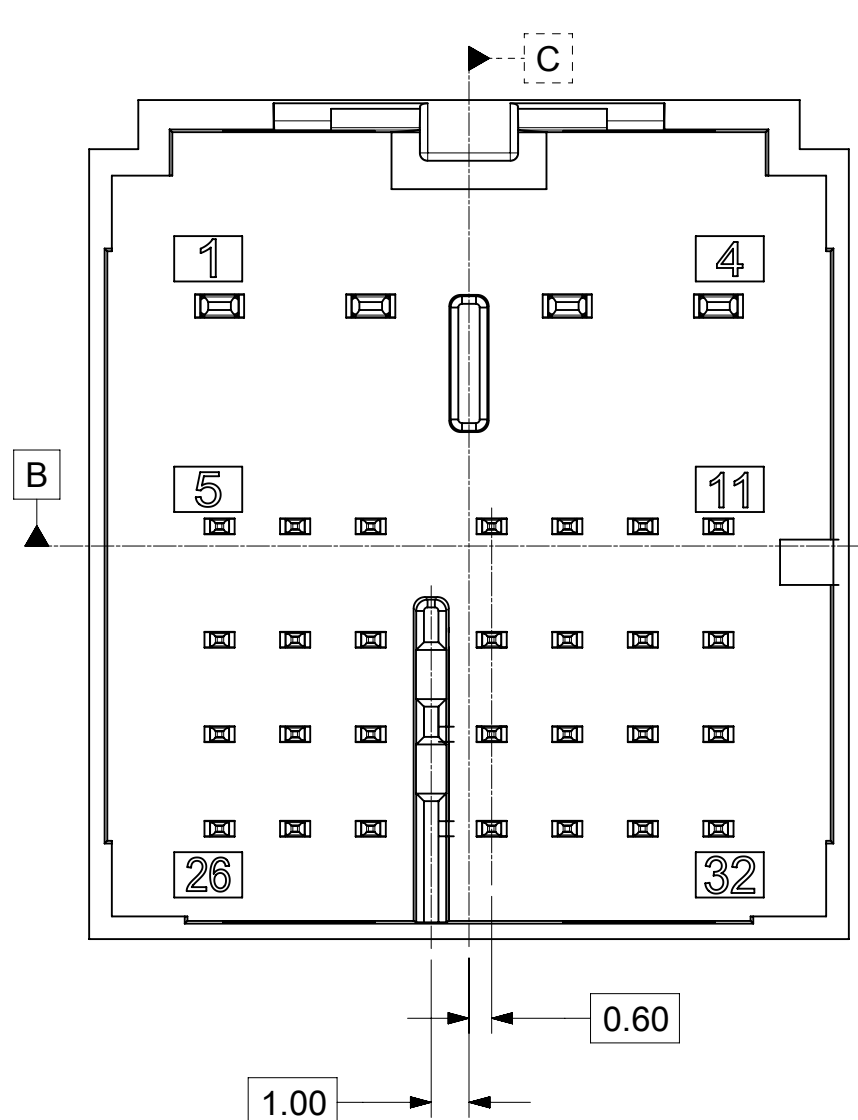
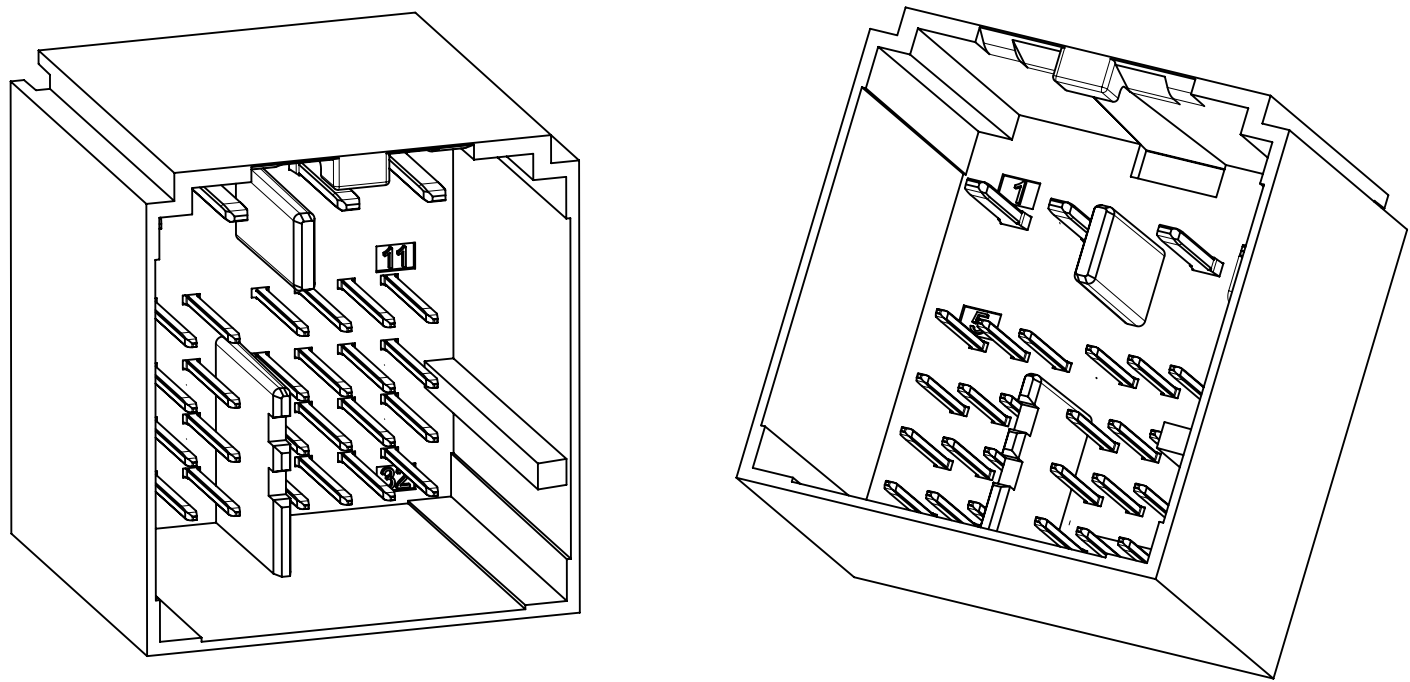
INTERFACE OPTIONS		
KEY	RIB OPTION	MATING CONNECTOR COLOR
1	OPTION A	BLACK
2	OPTION A	BLUE
3	OPTION A	DARK GRAY
4	OPTION A	PURPLE C
5	OPTION B	PINK B
6	OPTION B	TBD
7	OPTION B	LIGHT BROWN
8	OPTION B	TBD

- 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 & 050-T001)
 - DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE (ELECTRICAL/MECHANICAL) IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.
 - DESIGN - 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 SHOWN AS SHARP TO BE R 0.2 MAX.
 - LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS 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.

RIB OPTION A



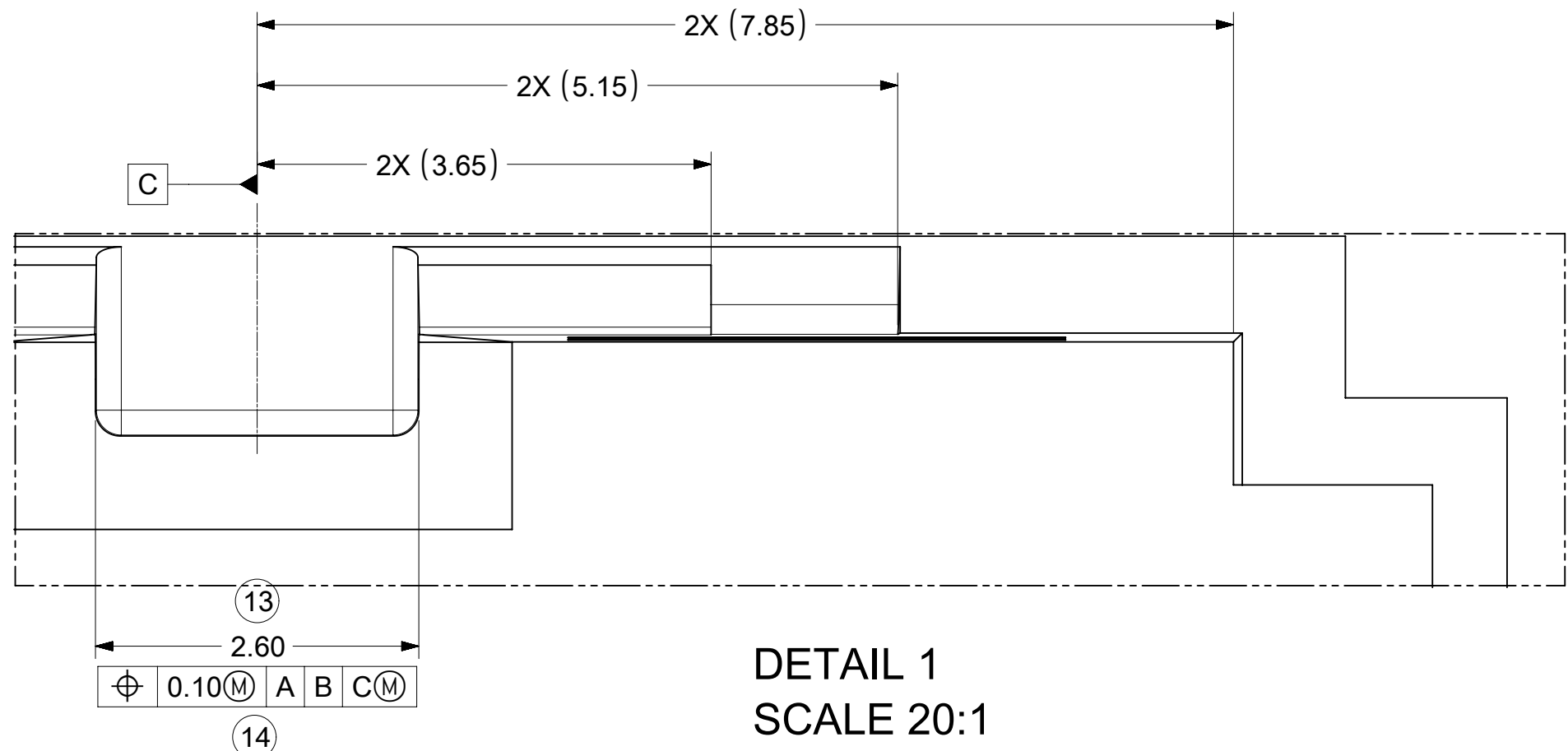
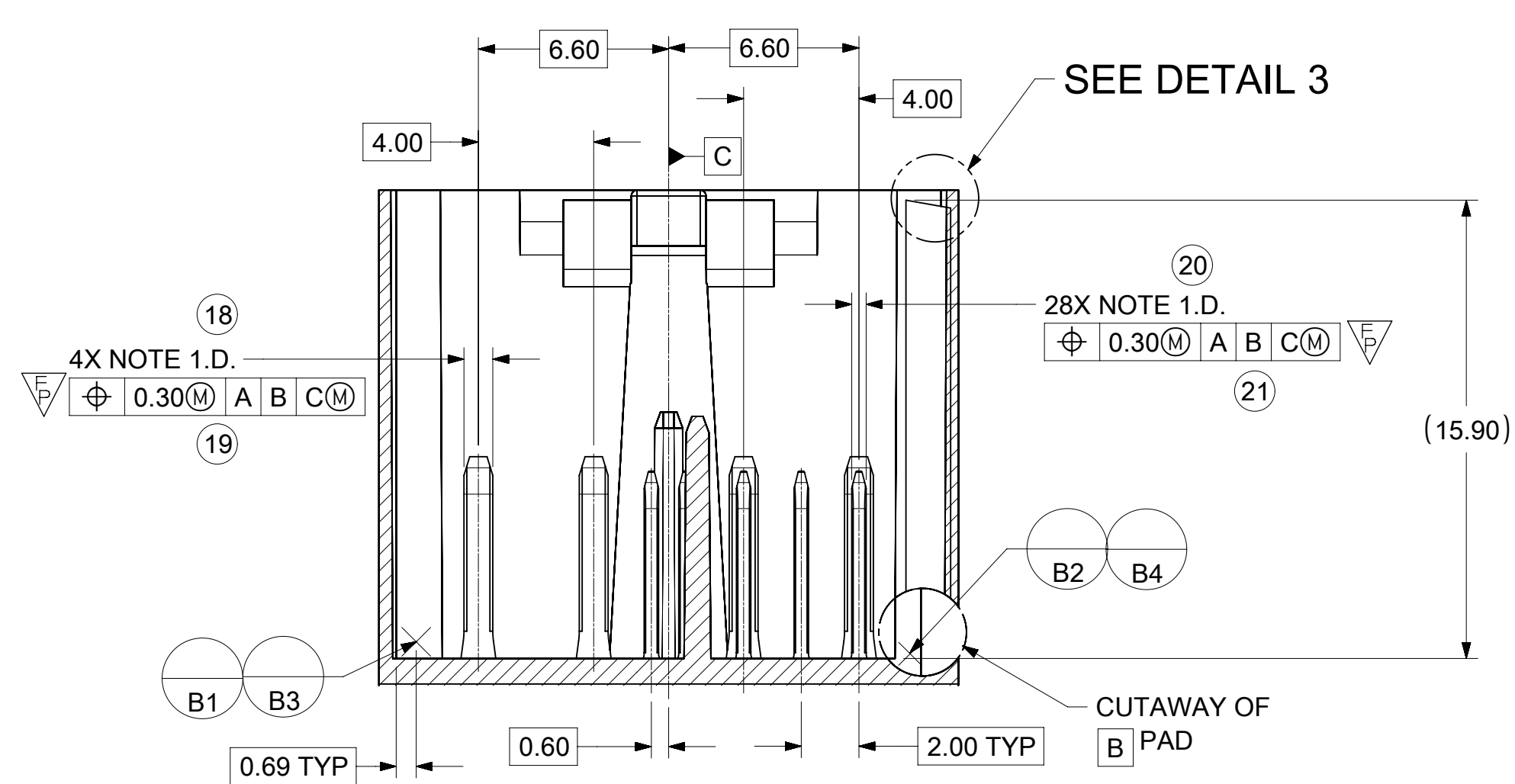
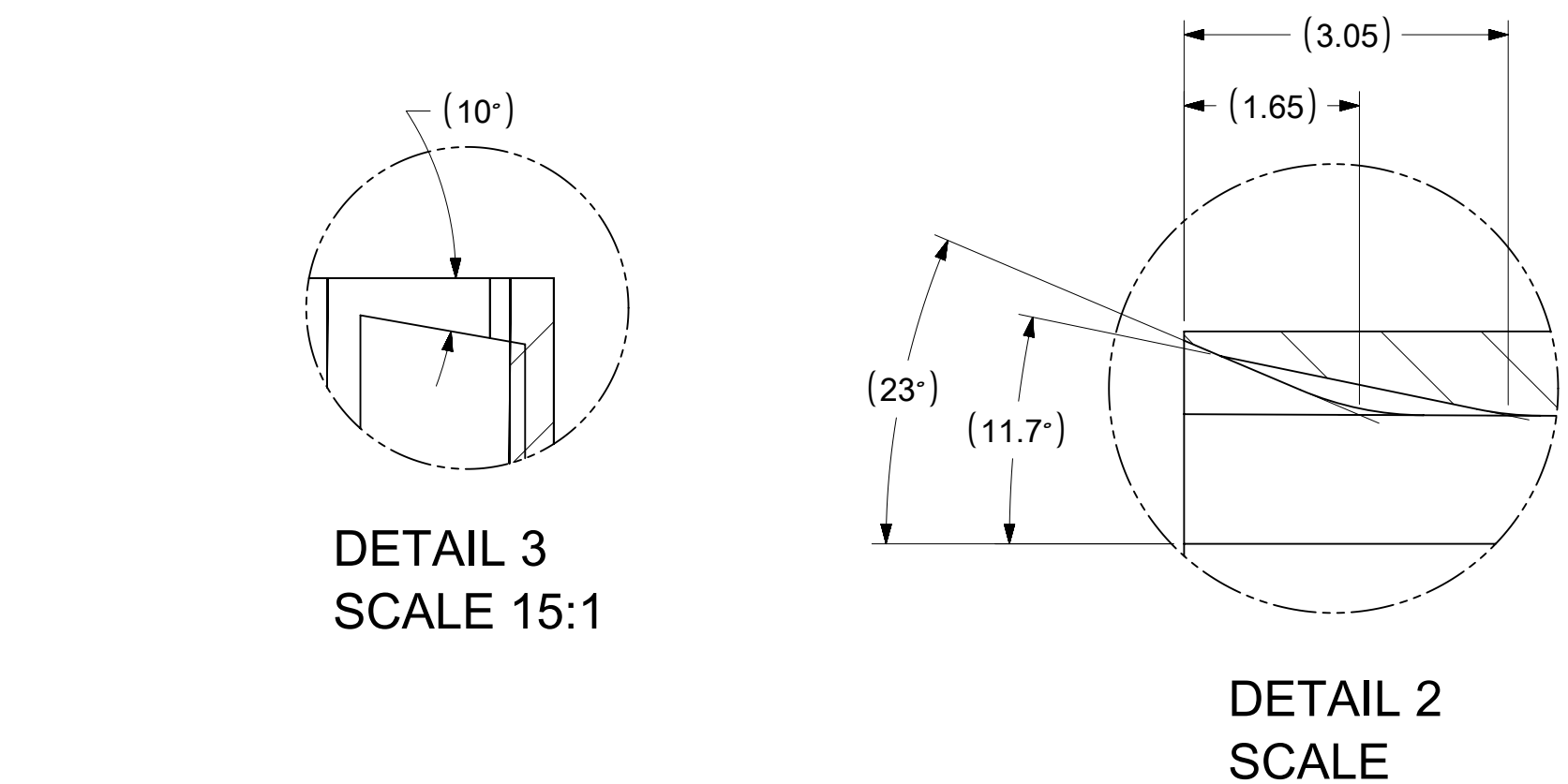
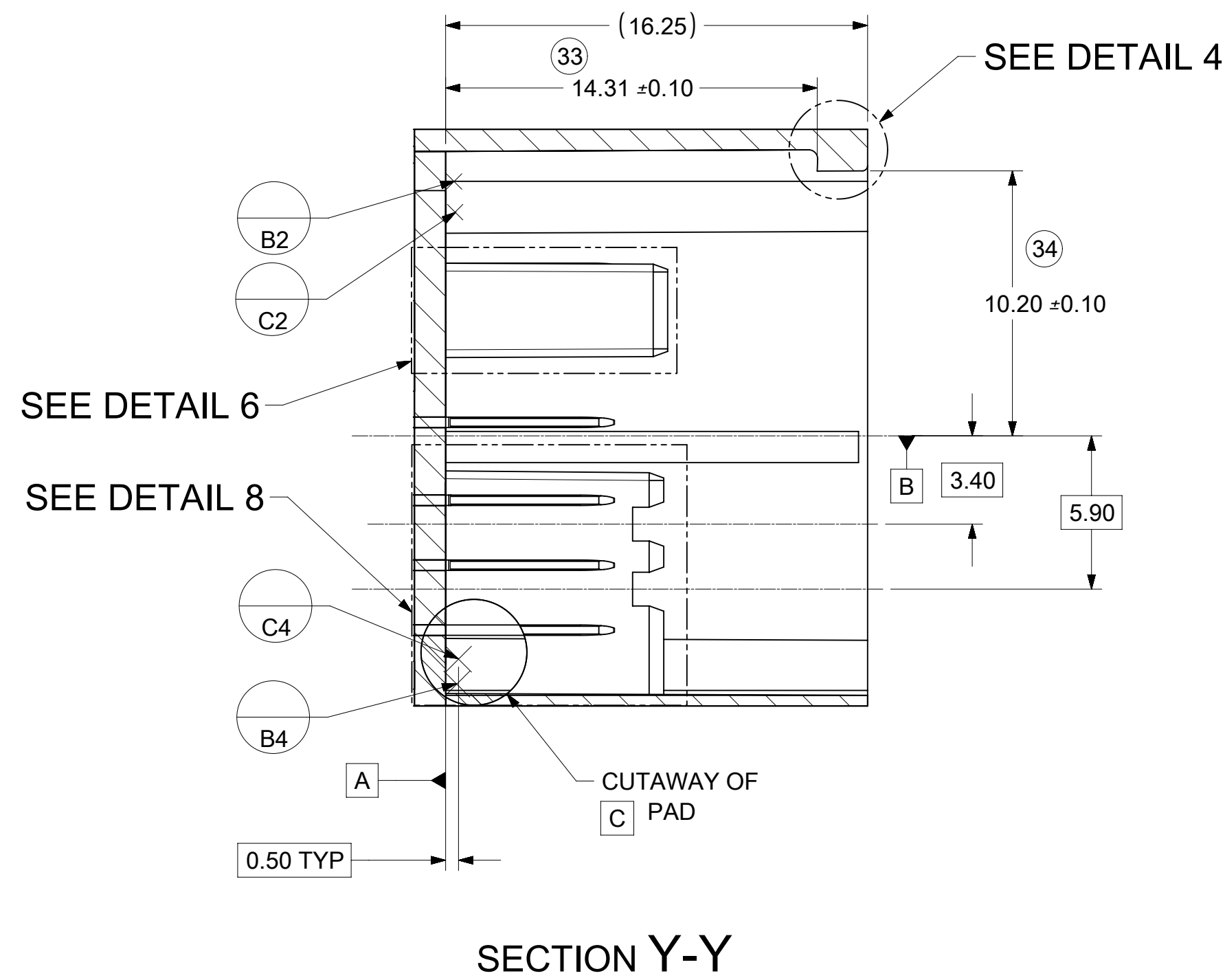
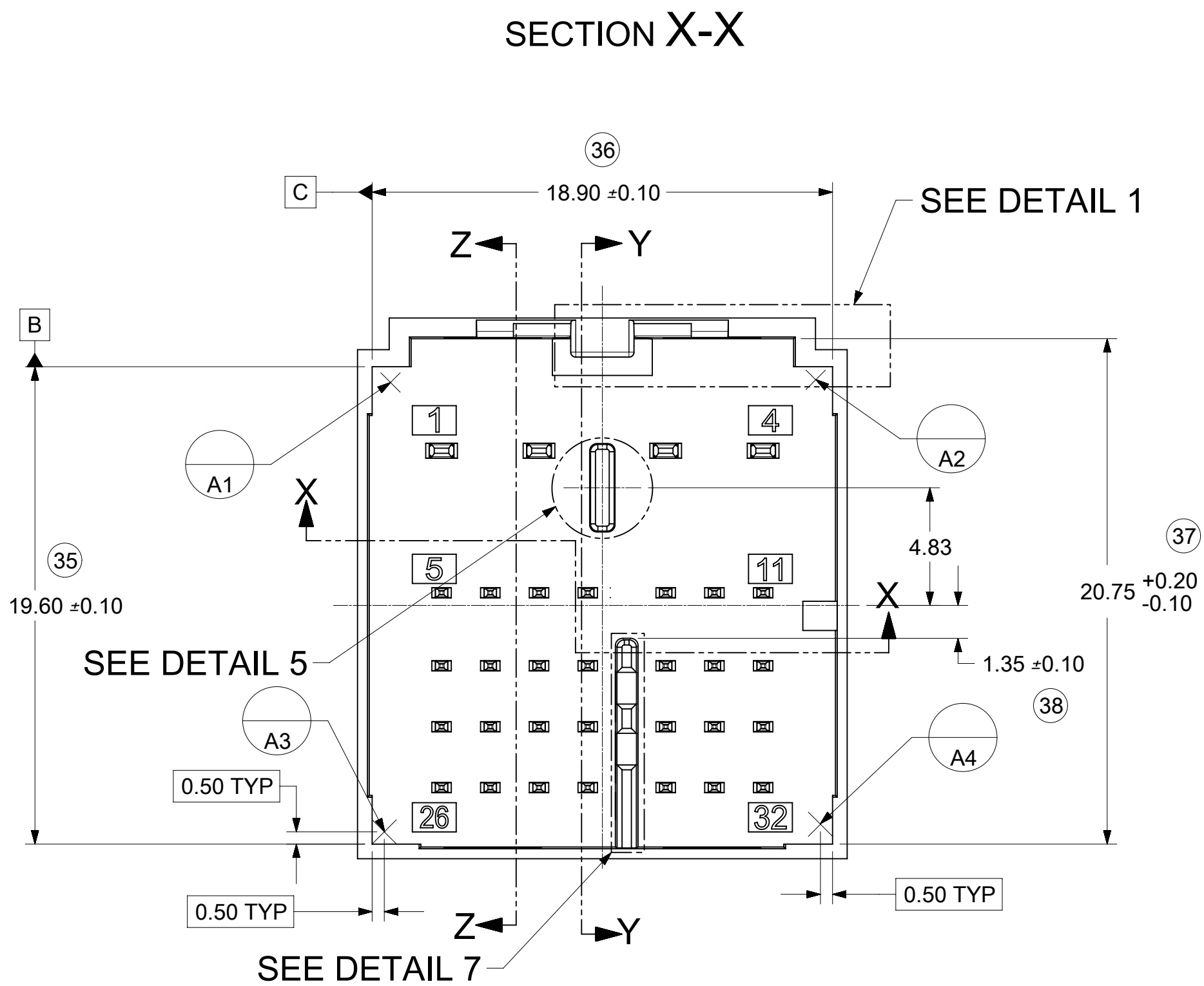
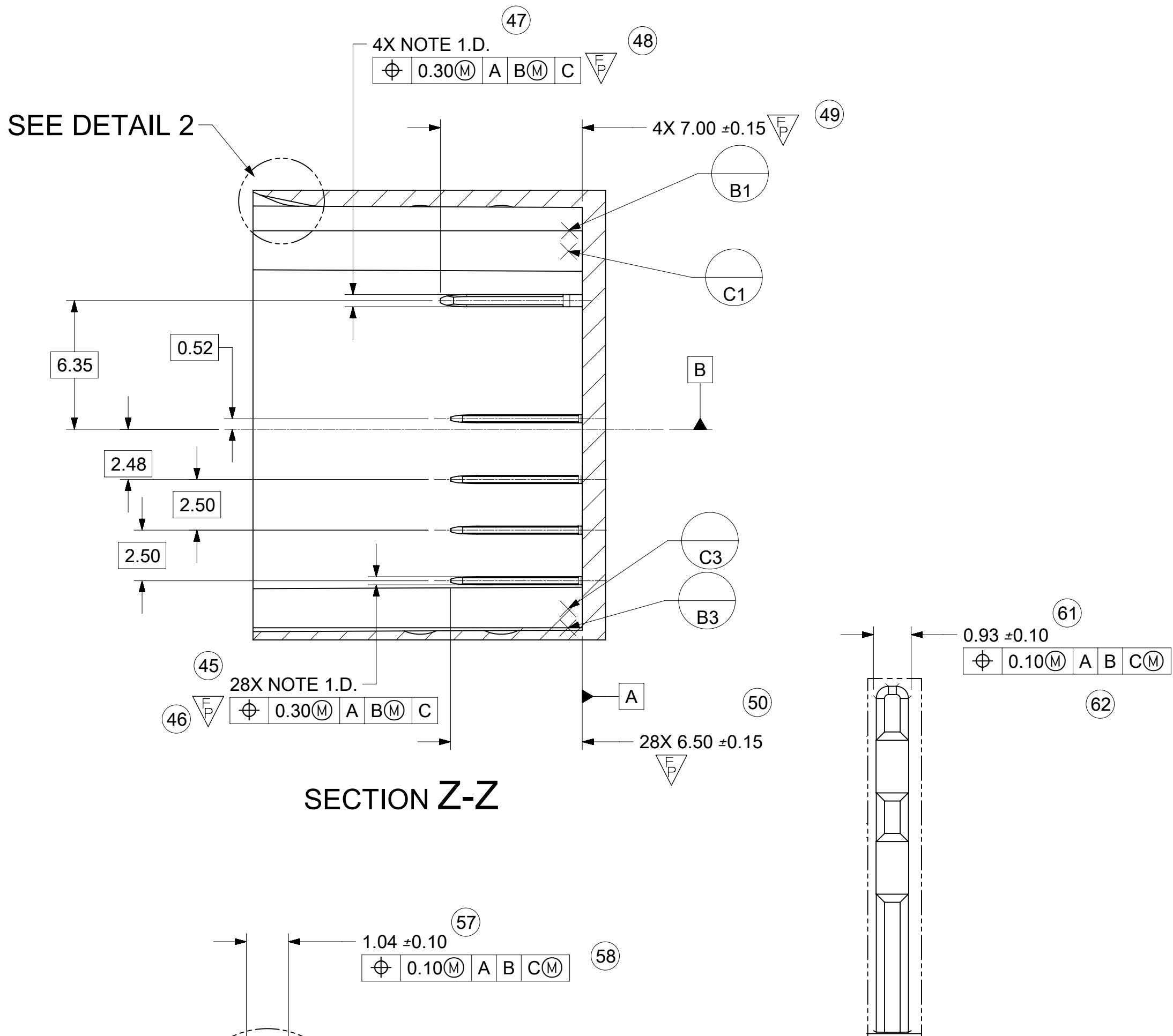
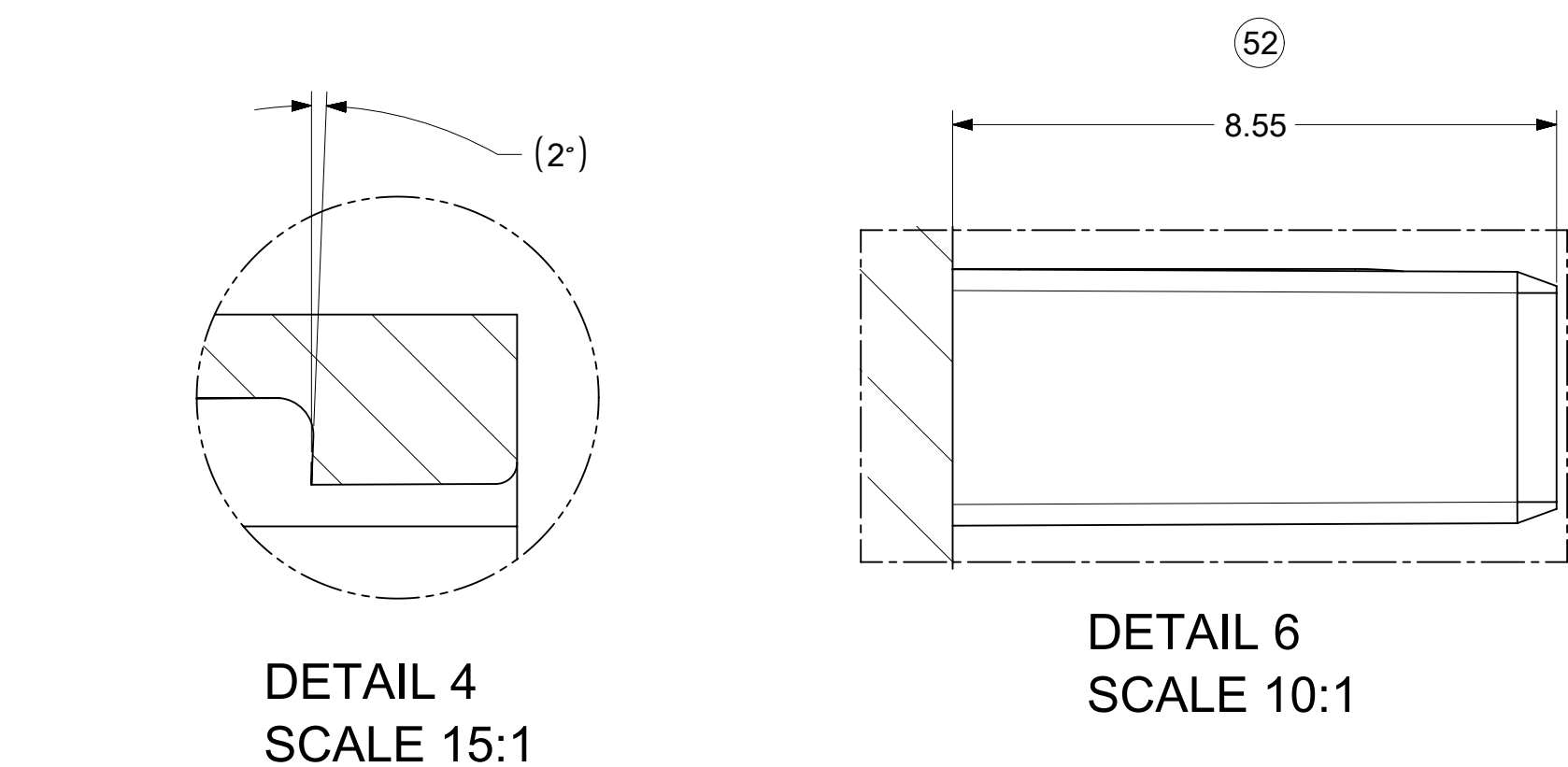
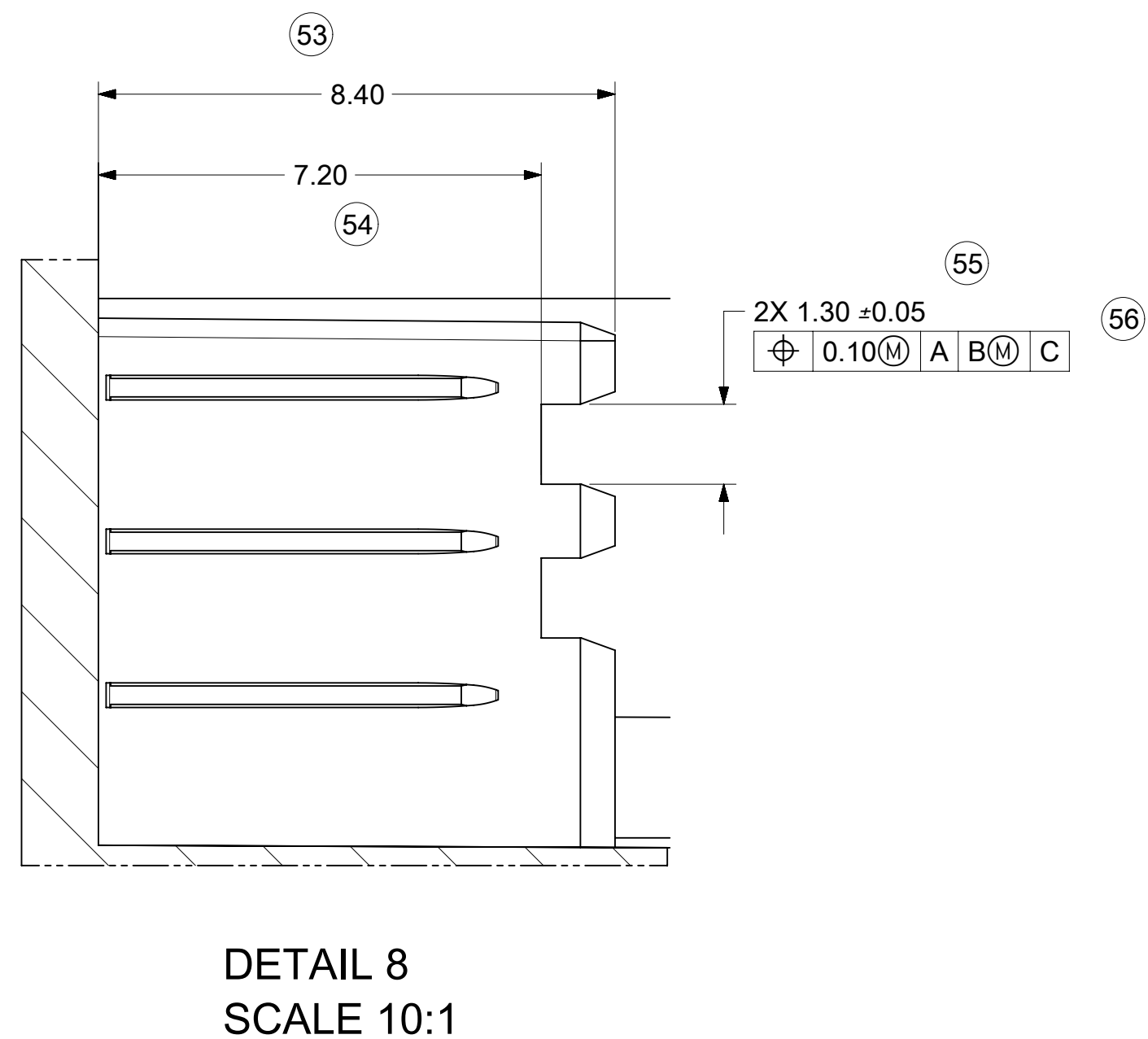
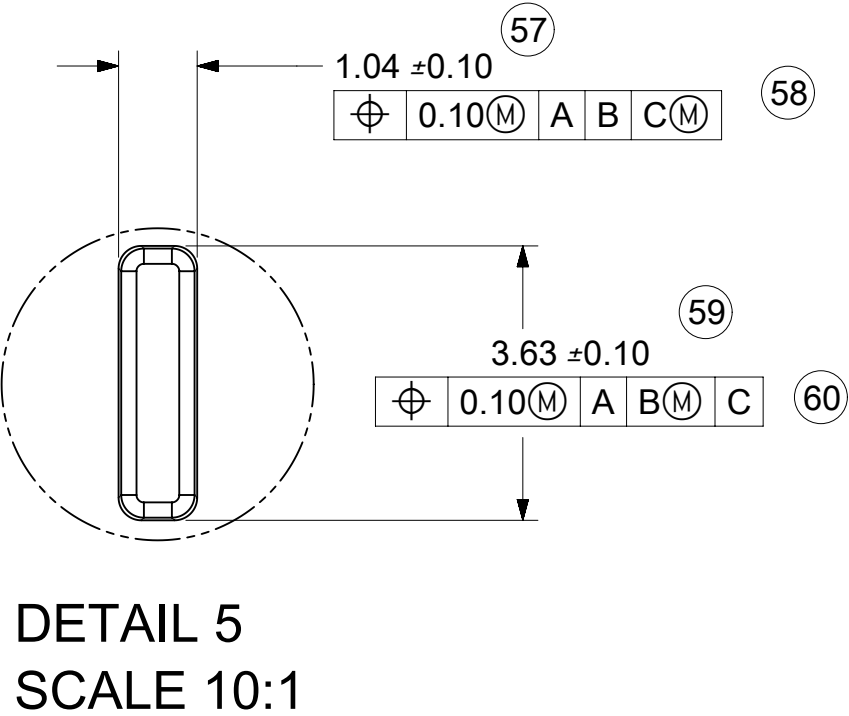
RIB OPTION B



B1	ADDED BALLOONS JCONDON 08/02/2018
B	REMOVED 0.2MM FROM CONNECTOR LOCK TAB FEATURE
A1	ADDED NOTE 1.E JCONDON 11/13/2017
A	NX-REMASTERING SAP # 10867412
7	UAU2016-1182 SAP # 10762453 JCONDON 02/08/2016
6	UAU2015-1446 SAP # 10681629 JCONDON 03/25/2015
5	UAU2015-1212 SAP # 10674908 JCONDON 02/06/2015
4	UAU2015-0982 SAP # 10670199 JCONDON 12/22/2014
3	UAU2014-1679 SAP # XXXXXXXXX KDEKOSKI 05/02/2014
2	UAU2014-1221 SAP # XXXXXXXXX MYOUNG01 02/06/2014
1	UAU2014-0715 SAP # XXXXXXXXX MYOUNG01 01/02/2014
REV	DESCRIPTION

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED DIMENSION BALLOONS		
	DIMENSION UNITS	SCALE			
▽ = 0	mm	5:1			
▽ = 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	SERIES				
▽ = 0	D-SIZE				
▽ = 0	160028				

32WAY STAK50H INTERFACE DRAWING		
PRODUCT CUSTOMER DRAWING		
DOCUMENT NUMBER	DOC TYPE	DOC PART
SD-160028-002	PSD	001
CUSTOMER		SHEET NUMBER
GENERAL MARKET		1 OF 3



DETAIL 7
SCALE

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										5:1									
= 6										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										160028									

CURRENT REV DESC: ADDED DIMENSION BALLOONS										EC NO: 602204									
DRWN: JCONDON										2018/08/02									
CHK'D: JCONDON										2018/08/03									
APPR: MVANSLAMBROU										2018/08/03									
INITIAL REVISION:										DRWN: MYOUNG01									
2013/11/14										2014/01/02									
APPR: KDEKOSKI										2014/01/02									
DOCUMENT NUMBER										SD-160028-002									
DOC TYPE										PSD									
DOC PART										001									
REVISION										B1									
MATERIAL NUMBER										GENERAL MARKET									
CUSTOMER										2 OF 3									
SHEET NUMBER																			

molex

32WAY STAK50H
INTERFACE DRAWING

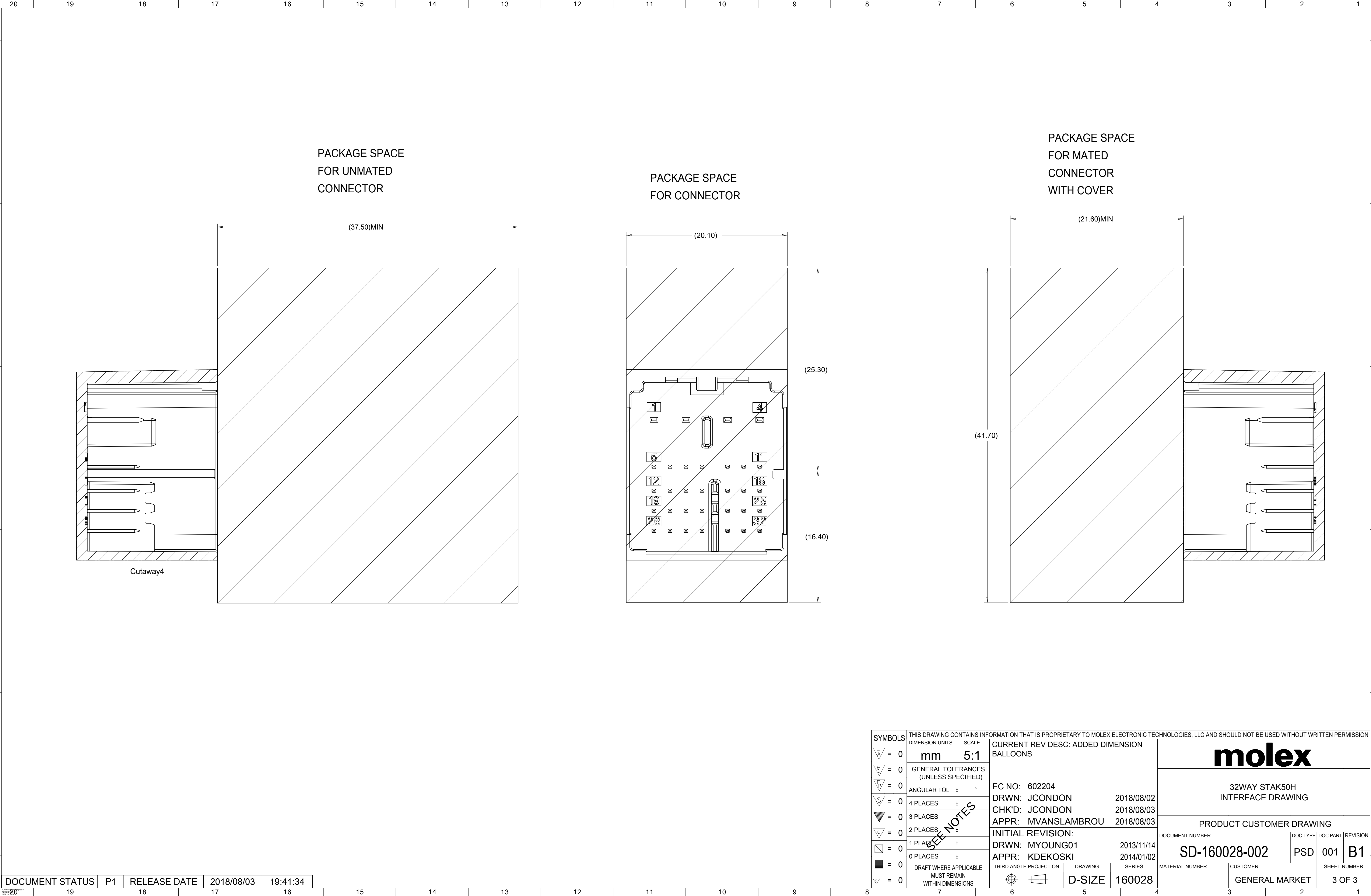
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER DOC TYPE DOC PART REVISION

SD-160028-002 PSD 001 B1

MATERIAL NUMBER CUSTOMER SHEET NUMBER

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 DIMENSION BALLOONS			<div>molex</div>			
 = 0	mm	5:1	<div>EC NO: 602204</div> <div>DRWN: JCONDON 2018/08/02</div> <div>CHK'D: JCONDON 2018/08/03</div> <div>APPR: MVANSLAMBROU 2018/08/03</div> <div>INITIAL REVISION:</div> <div>DRWN: MYOUNG01 2013/11/14</div> <div>APPR: KDEKOSKI 2014/01/02</div>			32WAY STAK50H INTERFACE DRAWING				
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)									
 = 0	ANGULAR TOL ± °									
 = 0	4 PLACES ±									
 = 0	3 PLACES ±									
 = 0	2 PLACES ±	<div>SEE NOTES</div>			PRODUCT CUSTOMER DRAWING					
 = 0	1 PLACES ±				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
 = 0	0 PLACES ±				SD-160028-002		PSD	001	B1	
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
= 0					D-SIZE	160028	GENERAL MARKET		3 OF 3	

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/03	19:41:34
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