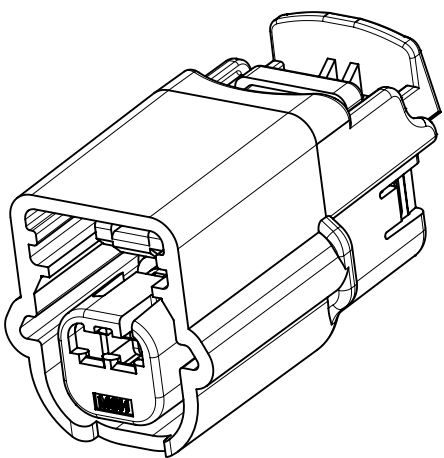
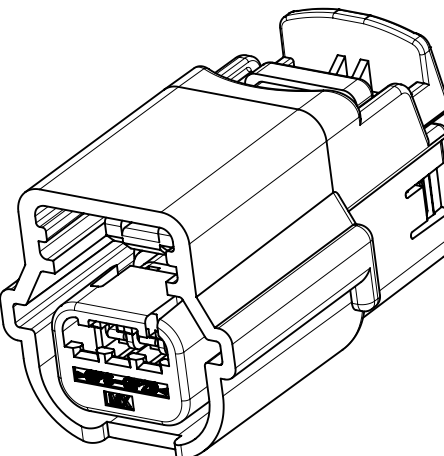
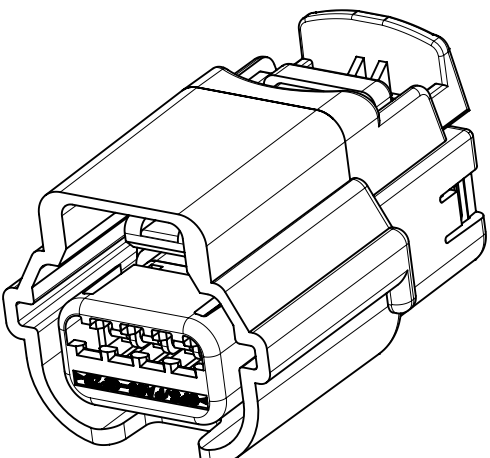




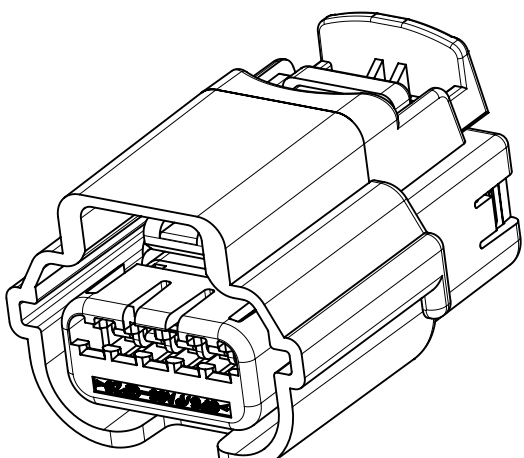
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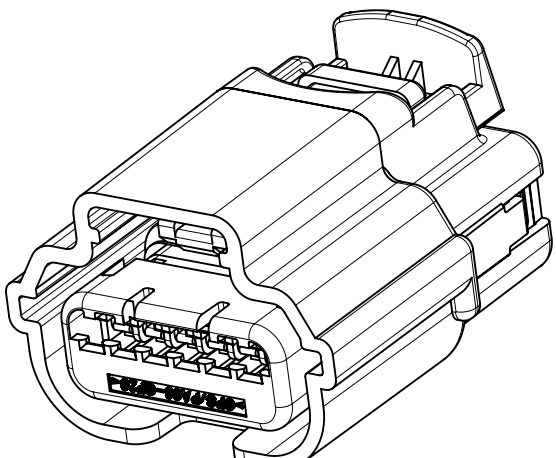
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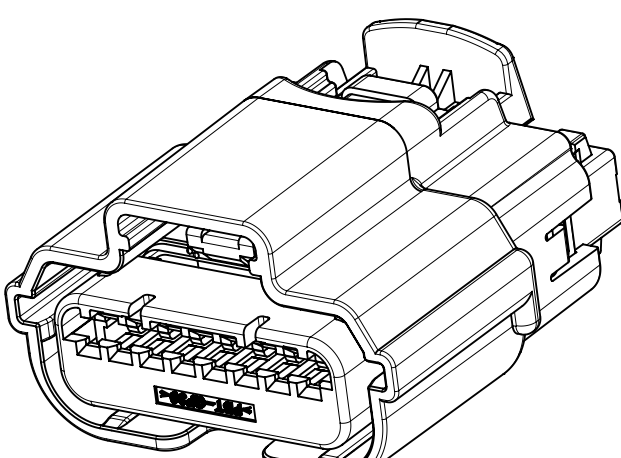
1X4



1X5



1X6



1X8

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES AND BOM
2	CONNECTOR ASSEMBLY WITHOUT CLIPSLOT
3	CONNECTOR ASSEMBLY WITH CLIPSLOT
4-5	KEY CONFIGURATIONS
6-9	BOM

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
 - a. APPLICATION SPECIFICATION SEE: AS-31402-000
 - CONTAINS: SEE AS CONTENT
 - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE DRAWINGS CHART.
 - *DENOTES DRAWINGS THAT CAN BE ACCESSED AT <<http://ewcap.uscarteams.org/>>.
 - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION
(SEE PLR PRE-LOCK VIEW ON SHEET 2 SECTION A-A).
 - b. PRODUCT RELATED DRAWING REFER TO DRAWING INFORMATION CHART
 - c. TPA'S MAY BECOME SEATED DURING TRANSIT. IF THIS OCCURS, TPA'S SHOULD BE MOVED TO THE PRE-LOCKED POSITION PRIOR TO FEMALE TERMINAL INSTALLATION. REFERENCE PRODUCT SPECIFICATION: PS-34646-001
 - d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEH5-699000-301
 - e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS
(COMPANY ID#13255)
 - f. SYSTEM EXCEPT SERIES 31404 1X8 CIRCUIT TO BE USED WITH OUTSIDE WIRE DIAMETERS RANGING FROM 1.20MM TO 2.06MM WITHIN RANGE OF:
 - SAE 22 AWG TO 18 AWG PER ESB-M1L123-A2
 - ISO 0.35MM² TO 0.75MM² PER GMW15626 AND ES-AU5T-1A348-AA
 - g. POLARIZATION FEATURE EFFECTIVENESS PER USCAR-2 PARAGRAPH 5.4.4 IS REDUCED WHEN TESTING ALL POLARIZATION OPTIONS: 100N MIN.
 - h. SEE SHEET #3 FOR CONNECTOR ASSEMBLY WITH CLIPSLOP
 - i. FOR CLIPSLLOT CONNECTOR: CLIP OVERHANGS CONNECTOR, PLEASE CHECK APPLICATION (COULD CAUSE WIRE CHAFING)-SHORTER CLIP IS A RECOMMENDATION.

2. DESIGN - GEOMETRY:

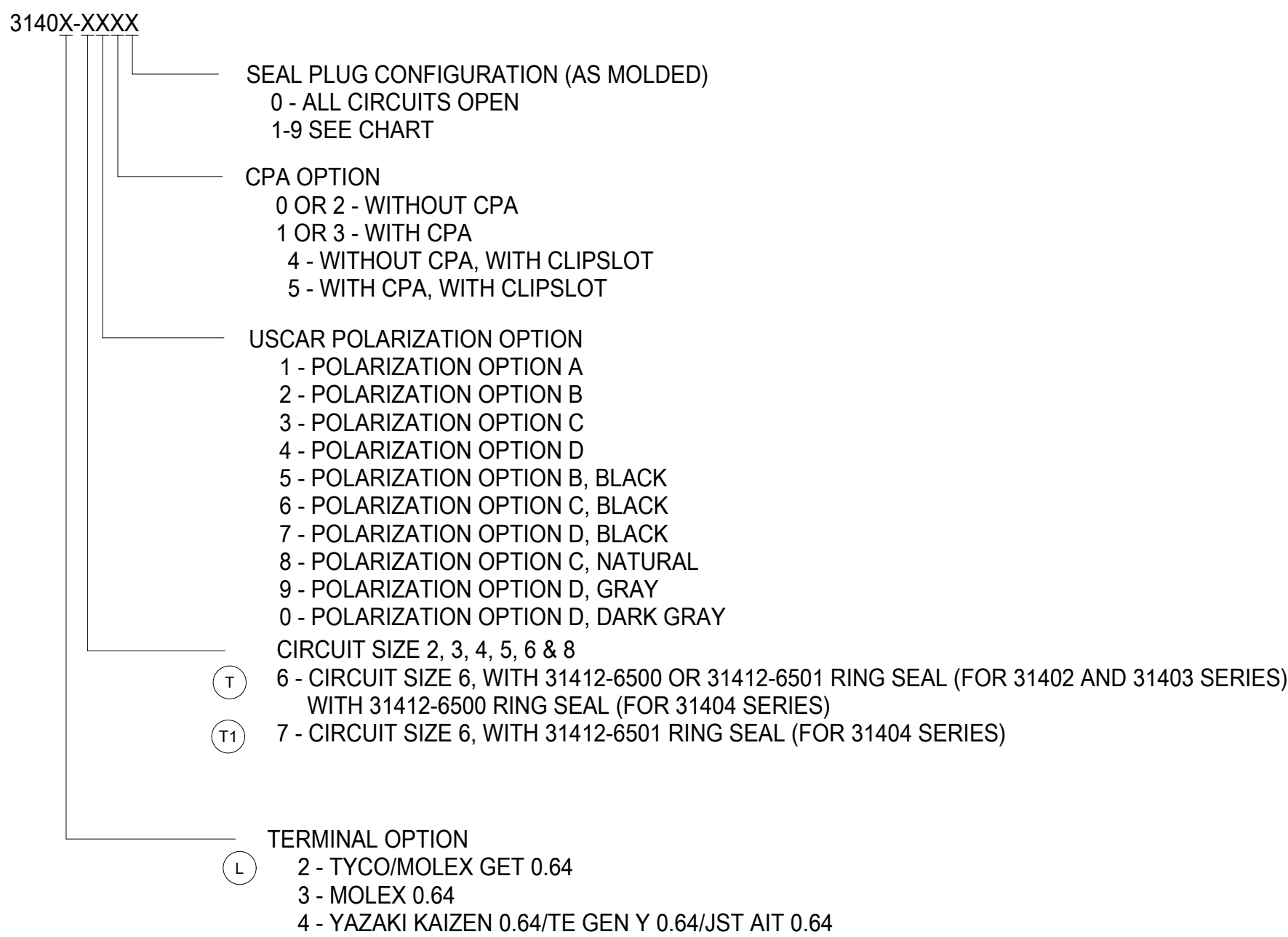
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. 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.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. DATE CODE: FIRST TWO DIGITS ARE THE CALENDAR YEAR (EXAMPLE: 04 = 2004). THIRD THROUGH 5TH DIGIT DAY # OF THE CALENDAR YEAR (EXAMPLE: FEB. 3RD = '034').

DRAWING INFORMATION	
DESCRIPTION	DRAWING NO.
PRODUCT SPECIFICATION	PS-31402-000
	FOR 31404 1X8 REFER TO PS-31404-001-1X8
PACKAGING	PK-31300-256
SALES DRAWING	SD-31402-211
	FOR 31404 1X8 REFER TO SD-31404-811
TEST SUMMARY	FOR 1X2 REFER TO TS-31402-001-1X2
	FOR 1X3 REFER TO TS-31402-001-1X3
	FOR 1X6 REFER TO TS-31402-001-1X6
	FOR 31404 1X8 REFER TO TS-31404-001-1X8

MATING INTERFACE DRAWING	
DESCRIPTION	INTERFACE DEFINITION
1X2	*064-S-002-1-Z02
1X3	*064-S-003-1-Z01
1X4	*064-S-004-1-Z02
1X5	*064-S-005-1-Z02
1X6	*064-S-006-1-Z02
1X8	*064-S-008-1-Z02

PART NUMBER LEGEND

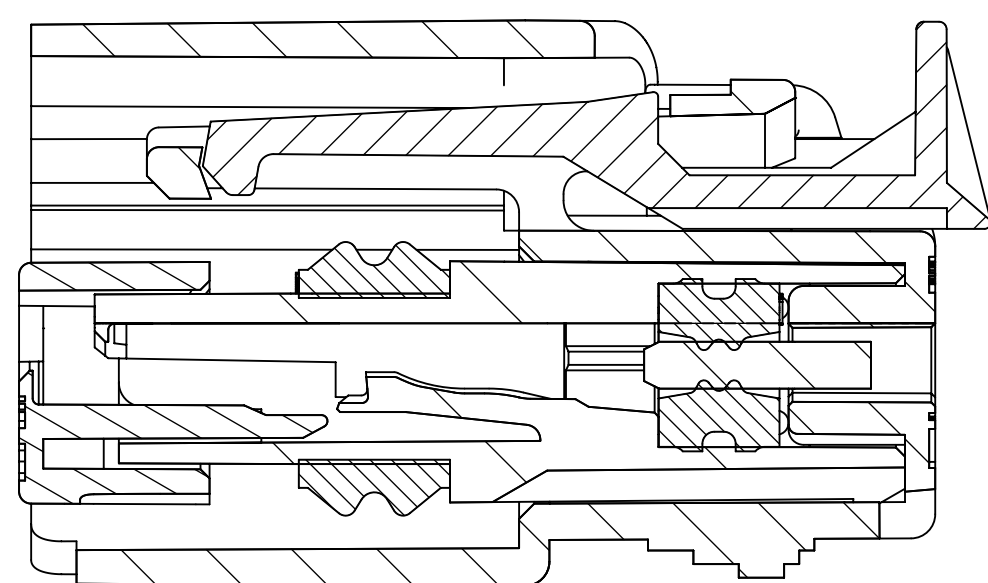
CONNECTOR ASSEMBLY



U7	ADD P/N: 31402-6134 to 31402-6124
U6	ADD P/N: 31402-6001 to 31402-6006 31403-6001 to 31403-6006 31404-6001 to 31404-6012
U5	ADD P/N: 31402-6122/6132/6123/6133, 31403-6105/6115/6502/6512
U4	DELETE P/N 31402-2120/2130
U3	DELETE OBSOLETE P/N'S (31404-6XXX) DELETE P/N WITH GREEN AND BROWN COLOR
U2	ADD P/N: 31404-7126, 31404-7136
U1	ADD P/N: 31402-3115, 31402-3105
U	OBSOLETE P/N 31404-6XXX
T8	ADD P/N: 31404-7804, 31404-7814
T7	CHANGE STATUS FROM "TOOLED" TO "SALEABLE" ADD P/N 31404-7135/7125, 31404-7216/7206, 31404-7913/7903
T6	ADD P/N: 31404-7124, 31404-7134, 31404-7205, 31404-7215, 31404-7803, 31404-7813
T5	ADD P/N: 31404-7123, 31404-7133, 31404-7902, 31404-7912
T4	ADD P/N:31402-2120,31402-2130,31402-3104,31402-3114,31402-6201,31402-6211, 31402-6301,31402-6311,31402-6401,31402-6411,31402-6501,31402-6511, 31402-6601,31402-6611,31402-6701,31402-6711,31403-6201,31403-6211, 31403-6301,31403-6311,31403-6401,31403-6411,31403-6501,31403-6511, 31403-6601,31403-6611,31403-6701,31403-6711,31404-6201,31404-6211
T2	UPDATE BOM INFORMATION ON SHEET 9
T1	DELETE 31402/31403-7*** P/N
T	ADD P/N 31407-7XXXX FOR 1X6 WITH 31412-6501 RING SEAL VERSION ON SHEET 9
S	ADD P/N: 31402-6131; 31402-6121
R	ADD P/N: 31404-3112; 31404-3102
P	ADD P/N: 31403-3132; 31403-3122
M	ADD P/N: 31402-6118; 31402-6108
REV	REV DESCRIPTION

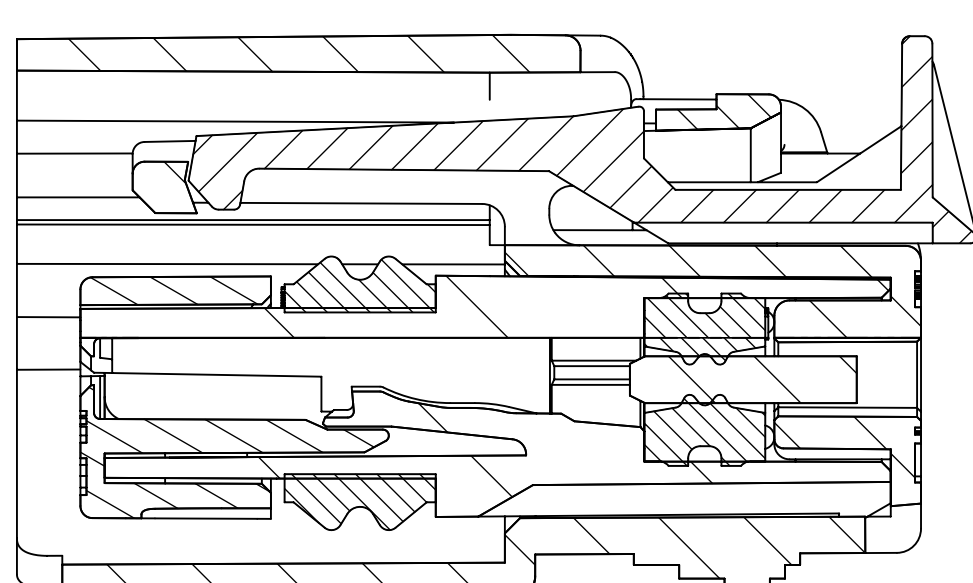
FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	= 0	DIMENSION UNITS	SCALE
	= 0	mm	1:1
	= 0	CURRENT REV DESC:	
DIVISIONAL SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)	
		ANGULAR TOL ± 3.0°	
4 PLACES		±	
3 PLACES		±	
2 PLACES		± 0.13	
1 PLACE		± 0.3	
0 PLACES		±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
		D-SIZE	SERIES
			31402
		MATERIAL NUMBER	CUSTOMER
			GENERAL MARKET
		SHEET NUMBER	
			1 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2021/10/11	02:34:41
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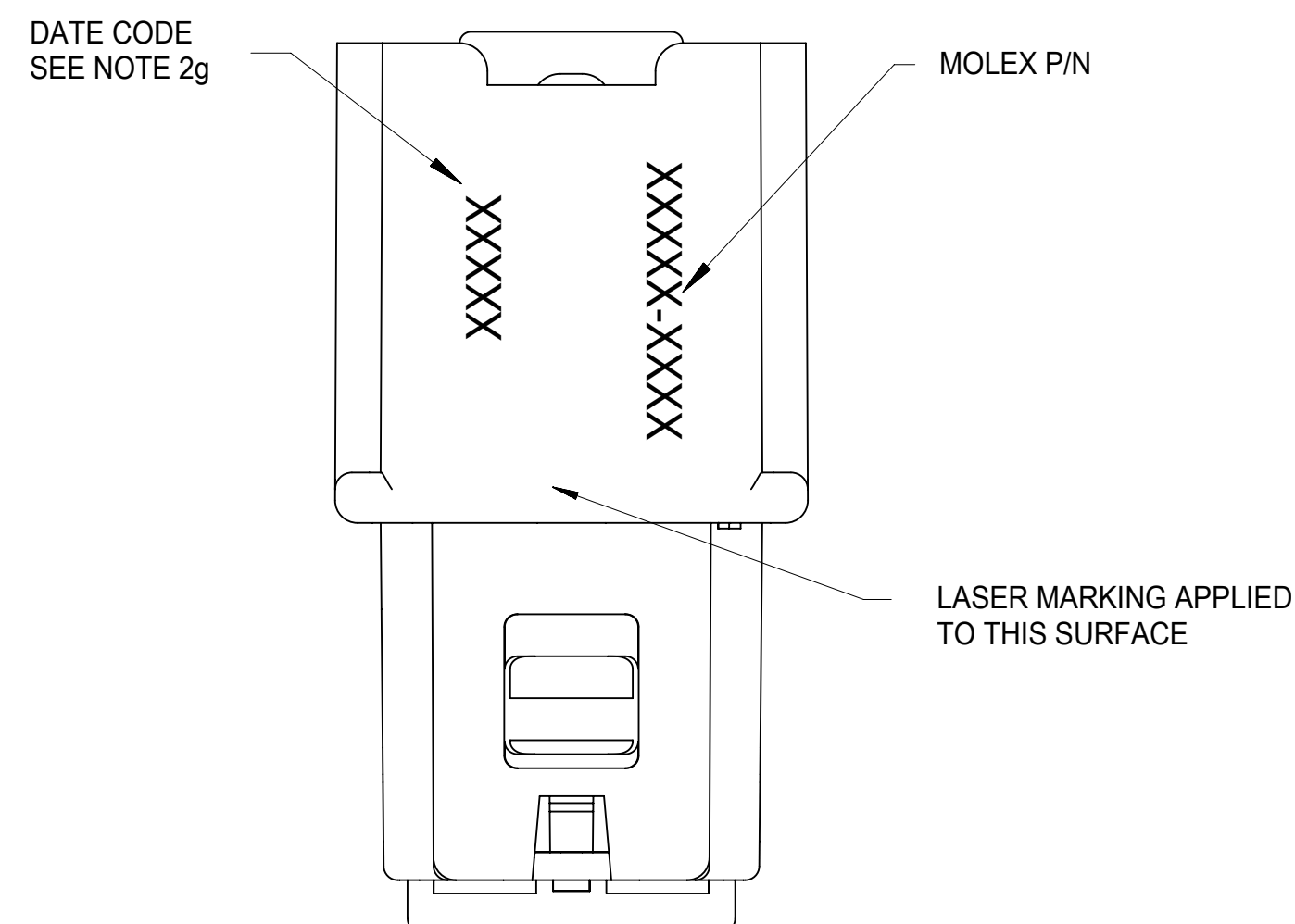
SECTION A-A

TPA SHOWN IN AS-SHIPPED
PRE-LOCKED POSITION
SEE NOTE 1c

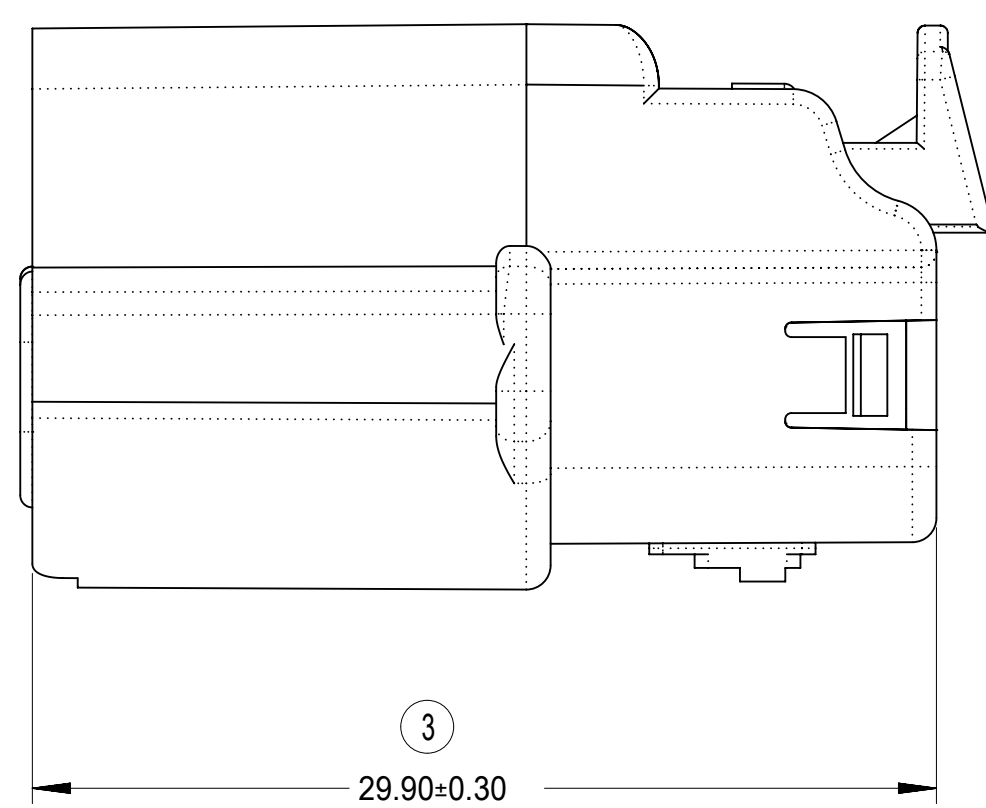
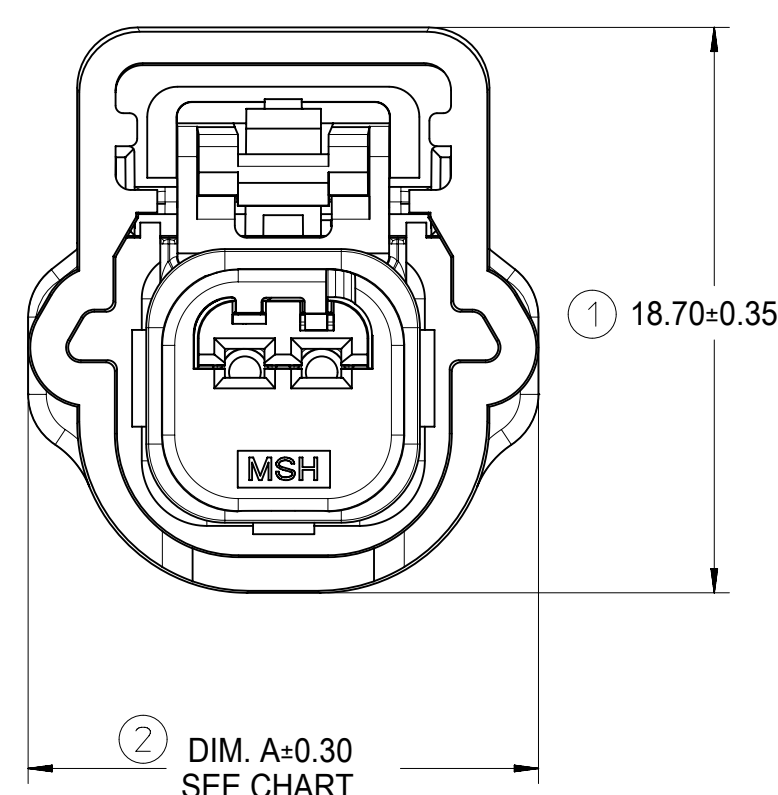
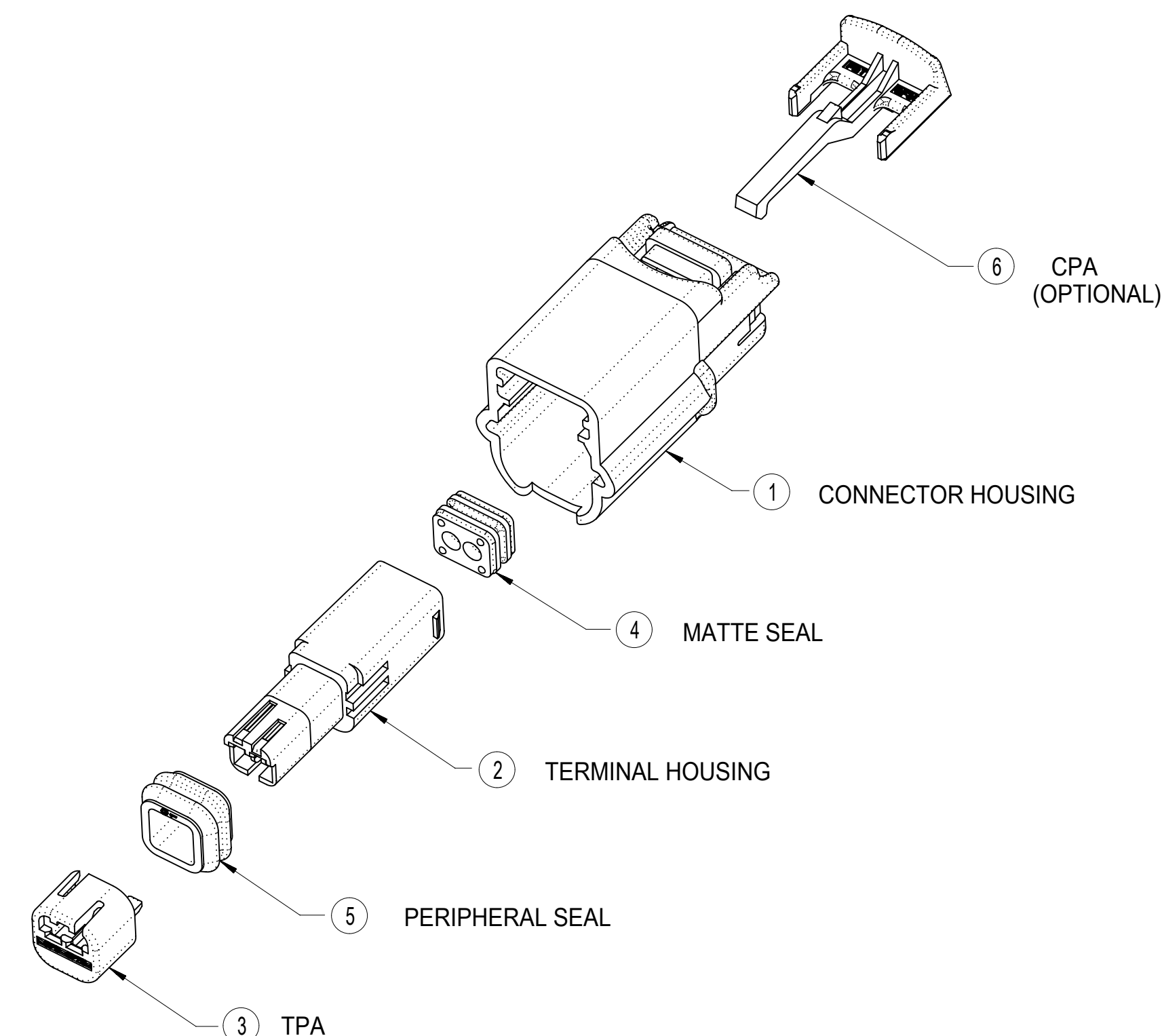


SECTION A-A

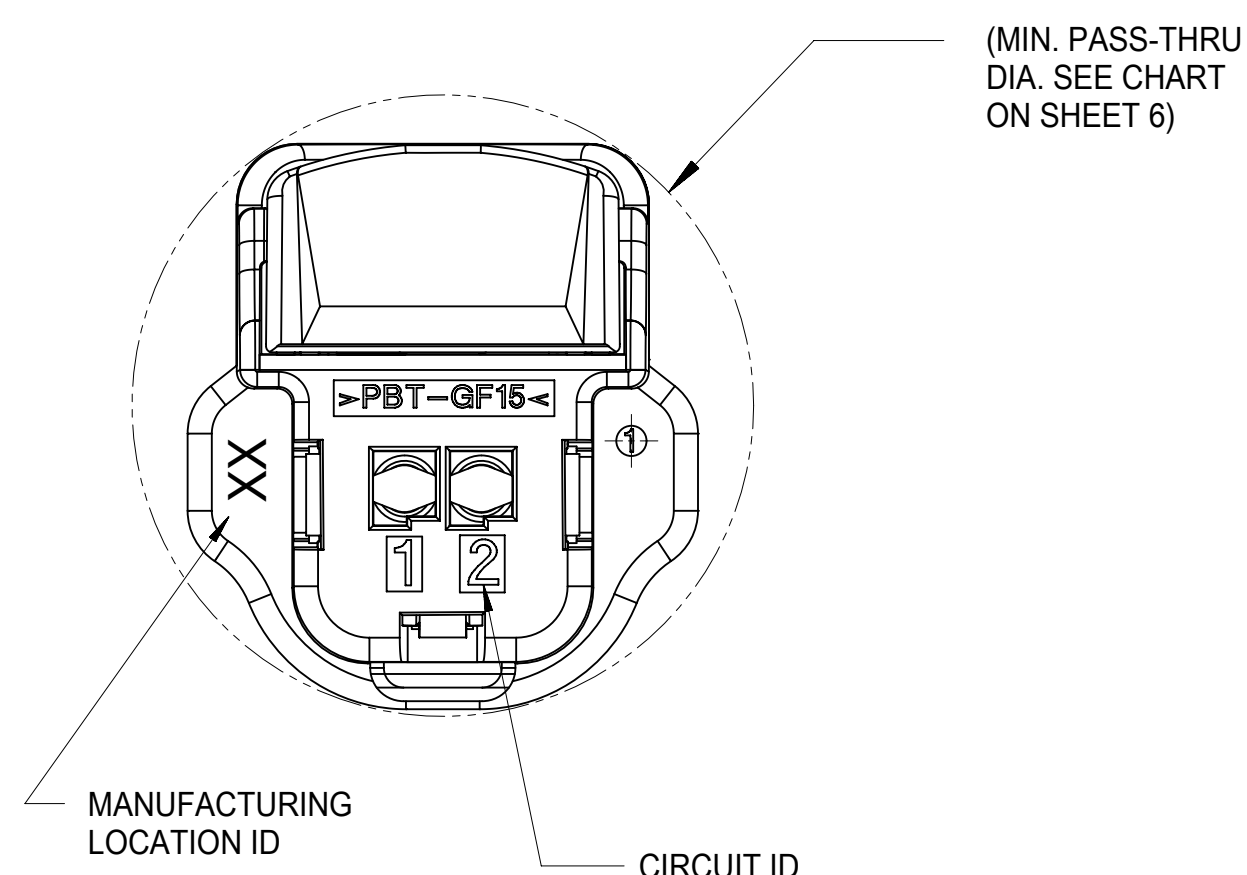
TPA SHOWN IN FINAL
LOCKED POSITION



BOTTOM VIEW



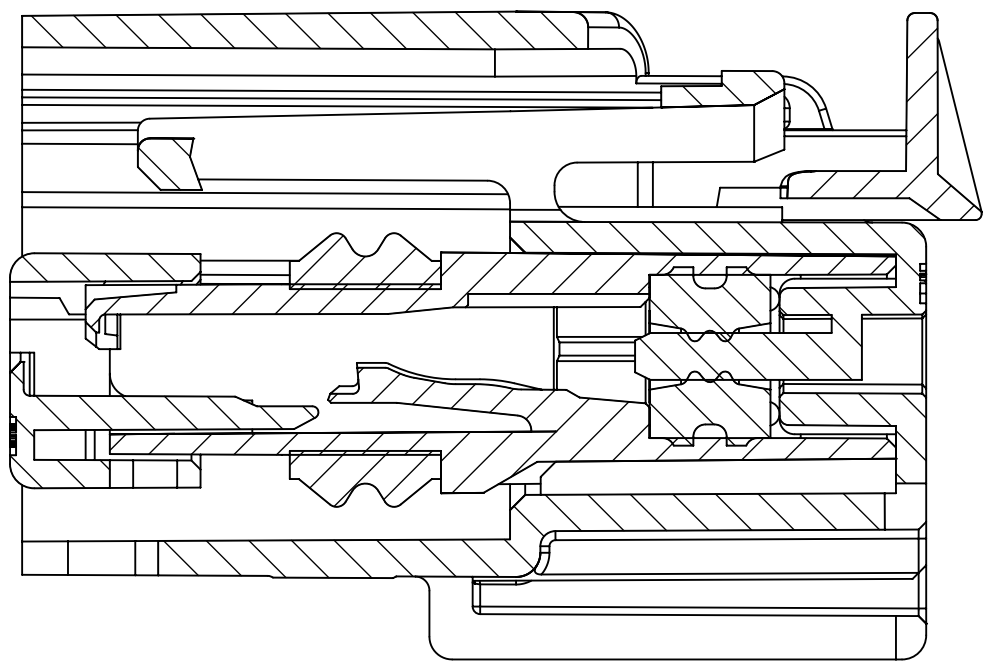
RIGHT SIDE VIEW



BACK VIEW

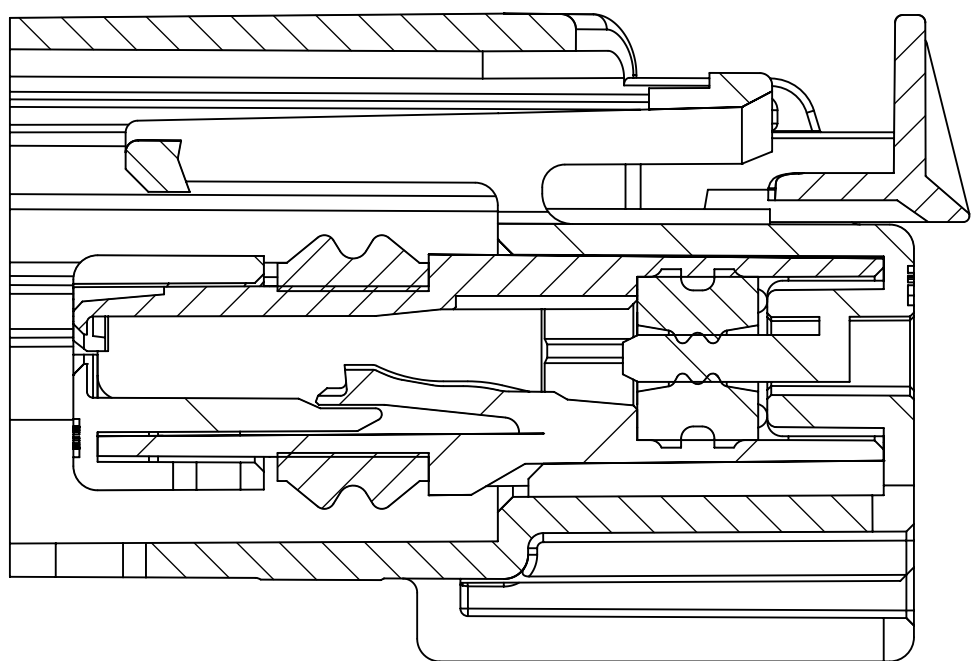
ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
FA = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: EC NO: 679773 DRWN: MCHEN372021/09/23 CHK'D: LSONG052021/10/08 APPR: CDZHANG2021/10/11 INITIAL REVISION: DRWN: RCARLSON2004/03/01 APPR: PBERG2004/09/30				molex 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY											
FC = 0		mm		1:1																	
FE = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)																			
DIVISIONAL SYMBOLS		ANGULAR TOL ± 3.0°																			
		4 PLACES		±																	
		3 PLACES		±																	
		2 PLACES		± 0.13						PRODUCT CUSTOMER DRAWING											
		1 PLACE		± 0.3																	
		0 PLACES		±																	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
								D-SIZE		31402		SD-31402-211		PSD		001		U7			
												MATERIAL NUMBER		CUSTOMER				SHEET NUMBER			
														GENERAL MARKET				2 OF 8			



SECTION C-C

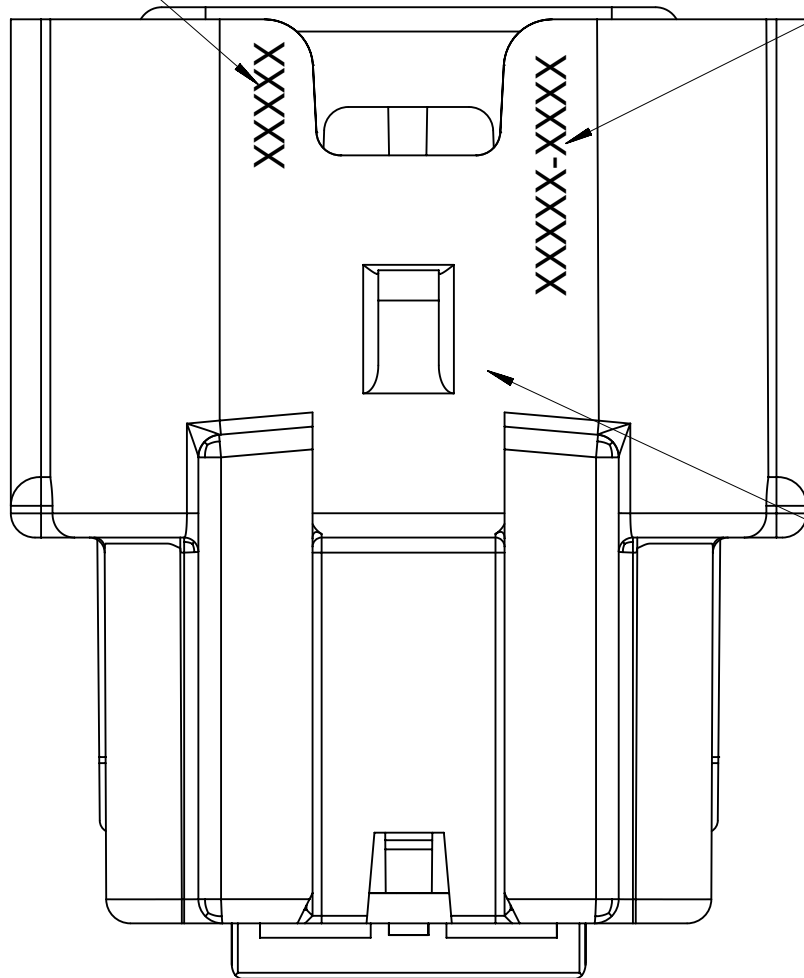
TPA SHOWN IN AS-SHIPPED
PRE-LOCKED POSITION
SEE NOTE 1c



SECTION C-C

TPA SHOWN IN FINAL
LOCKED POSITION

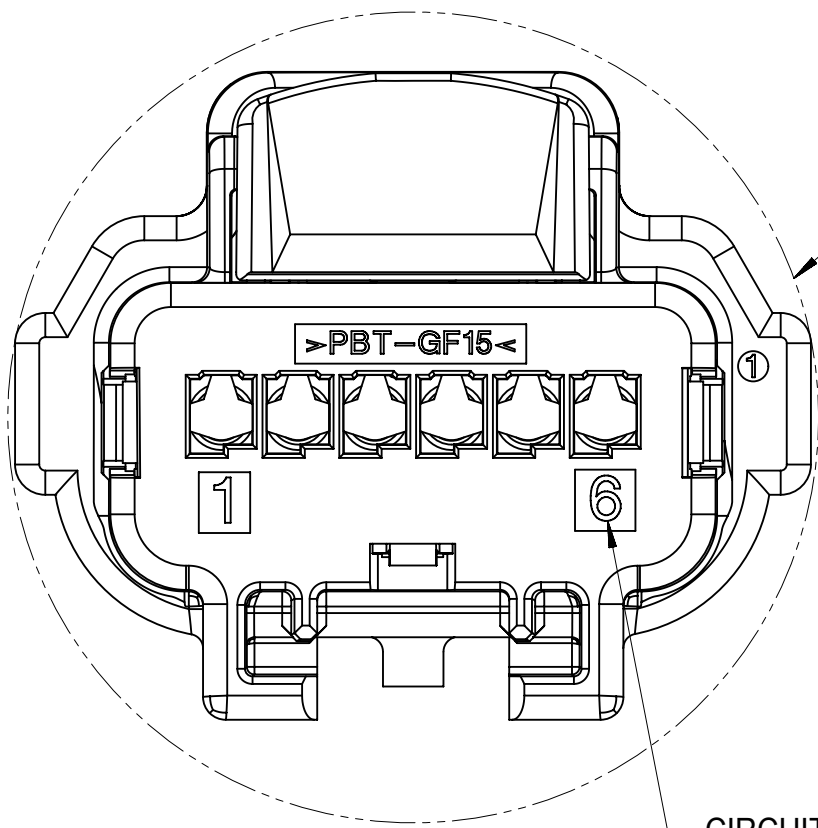
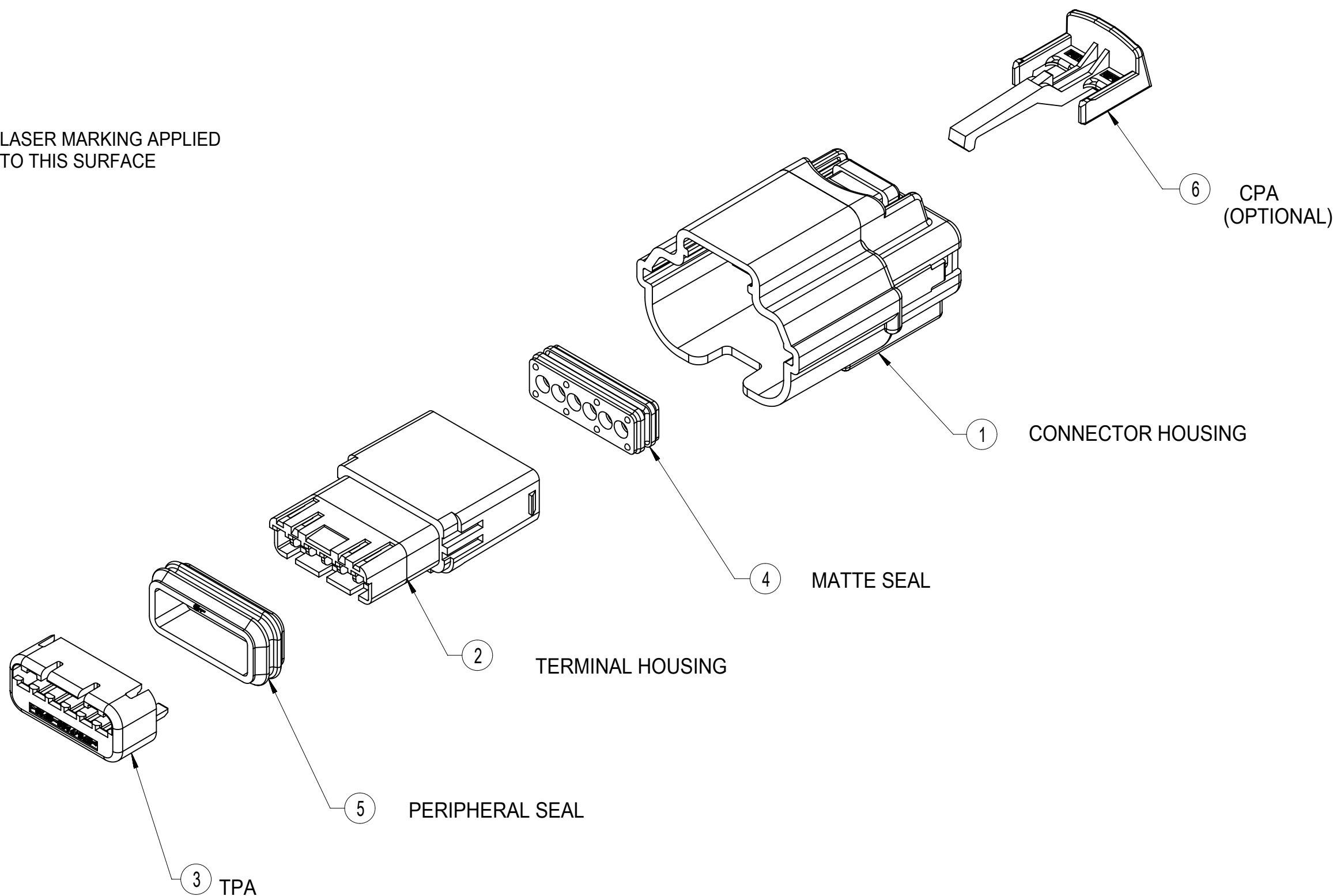
DATE CODE
SEE NOTE 2g



MOLEX P/N

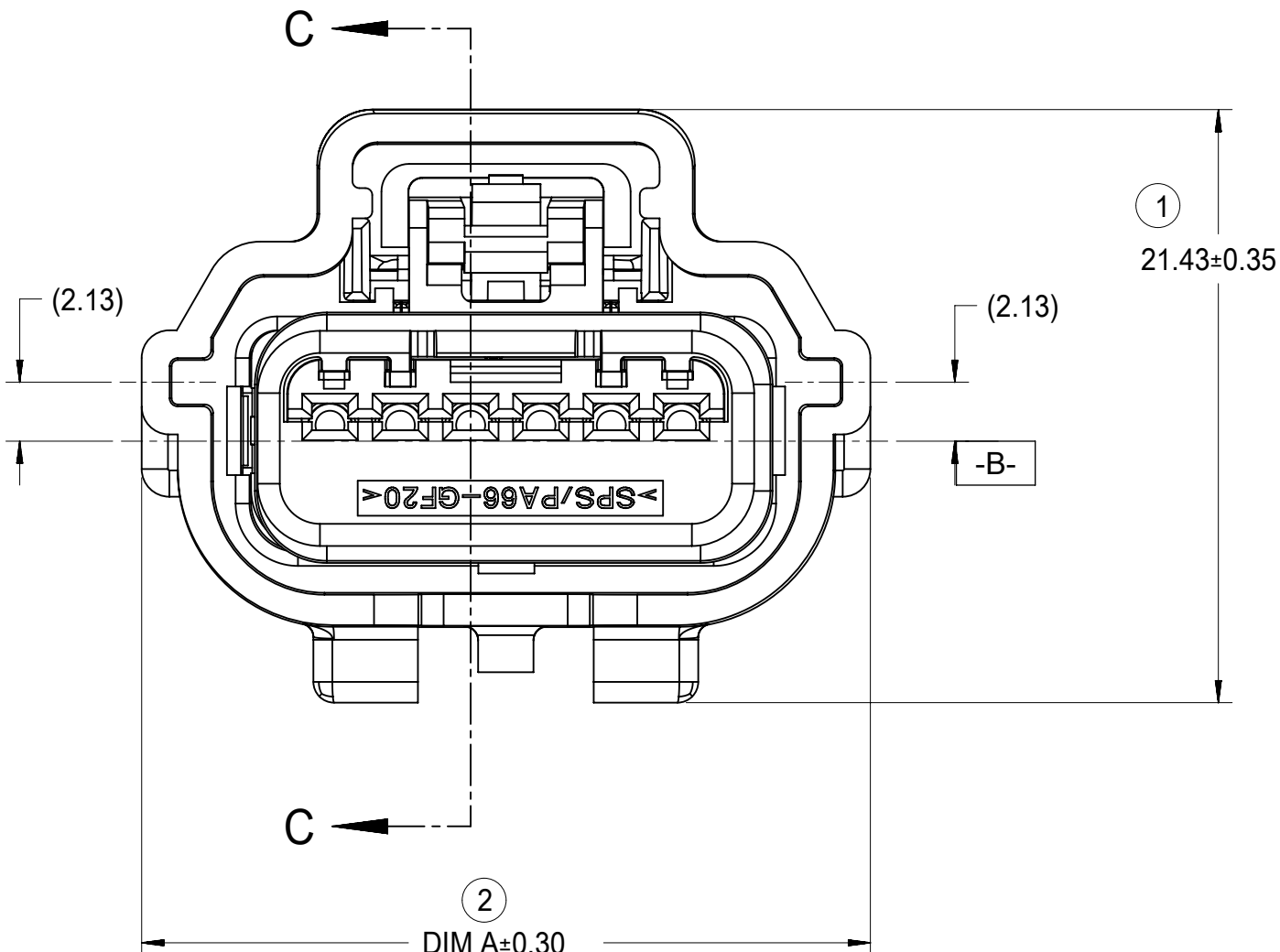
LASER MARKING APPLIED
TO THIS SURFACE

BOTTOM VIEW

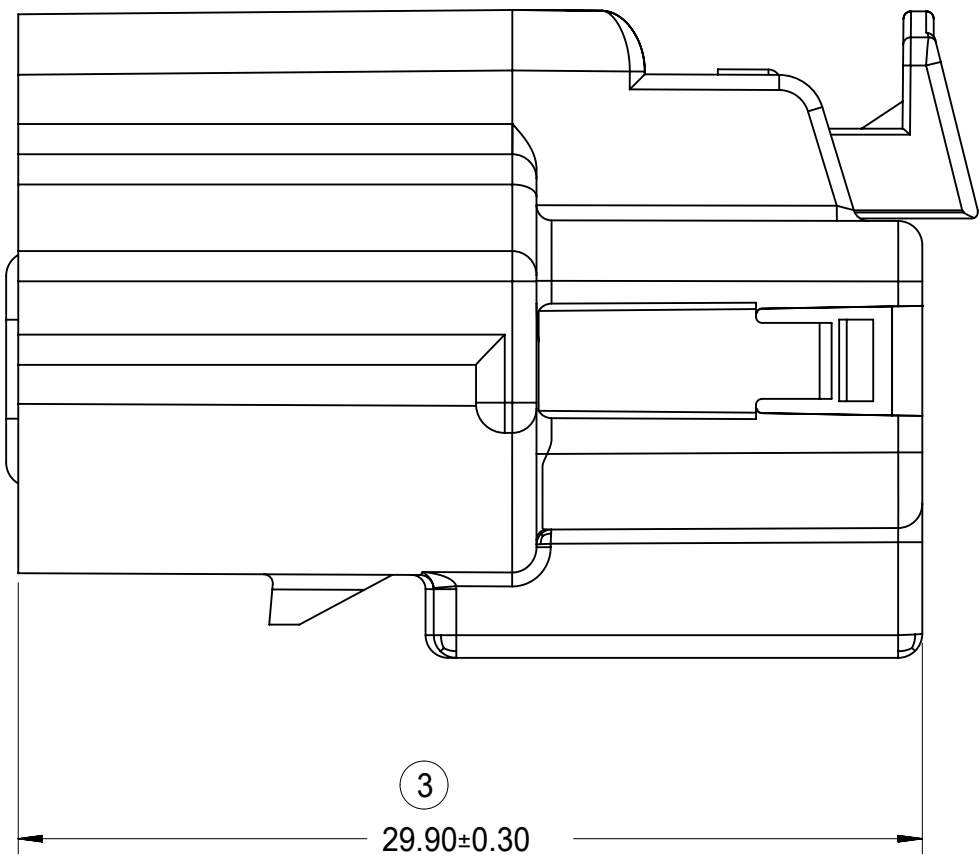


(MIN. PASS-THRU
DIA. SEE CHART
ON SHEET 7)

BACK VIEW



FRONT VIEW
POLARIZATION A



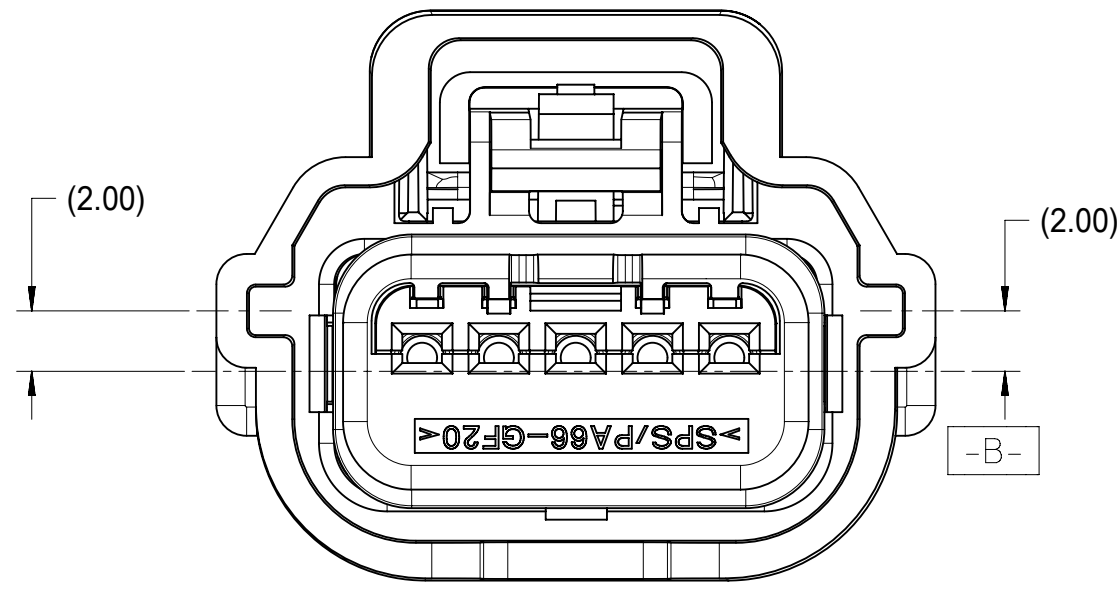
RIGHT SIDE VIEW

ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

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:			molex					
	mm		1:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)					0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY							
ANGULAR TOL ± 3.0°													
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 679773			PRODUCT CUSTOMER DRAWING					
	3 PLACES		±		DRWN: MCHEN37 2021/09/23								
	2 PLACES		± 0.13		CHK'D: LSONG05 2021/10/08								
	1 PLACE		± 0.3		APPR: CDZHANG 2021/10/11								
	0 PLACES		±		INITIAL REVISION:								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					DRWN: RCARLSON 2004/03/01			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
					APPR: PBERG 2004/09/30			SD-31402-211		PSD	001	U7	
THIRD ANGLE PROJECTION					DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
					D-SIZE		31402				GENERAL MARKET		3 OF 8

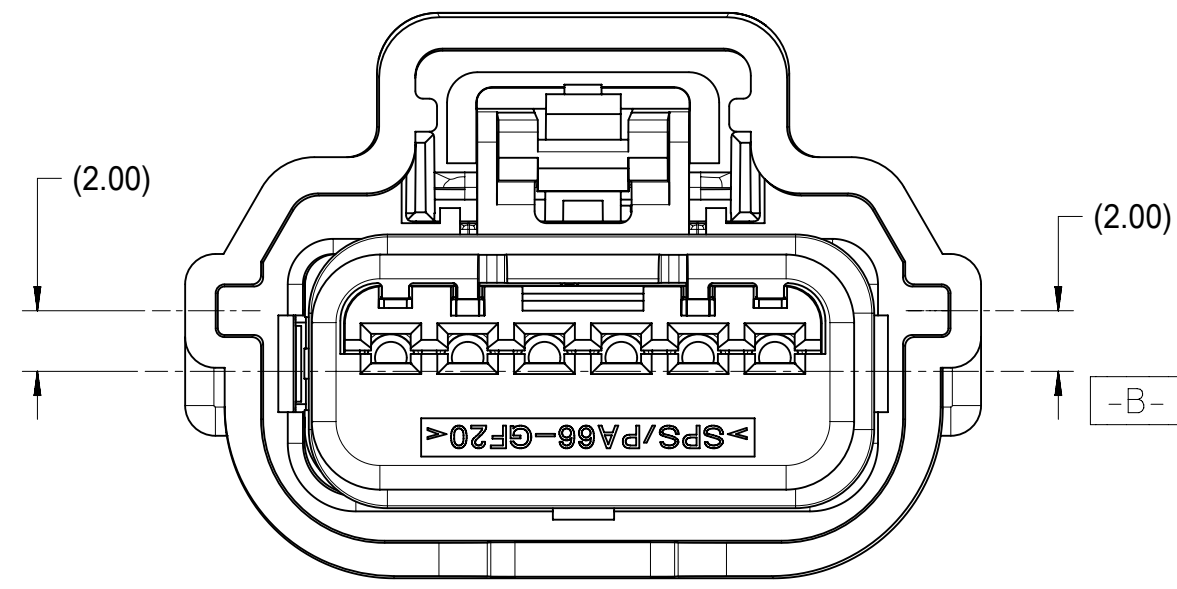
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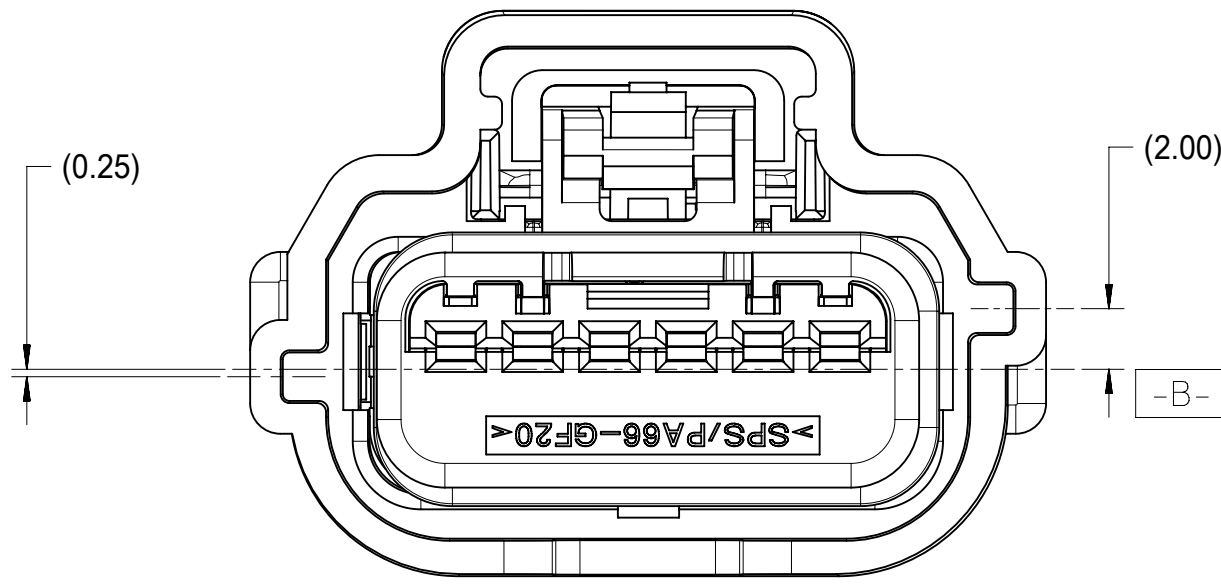


POLARIZATION A

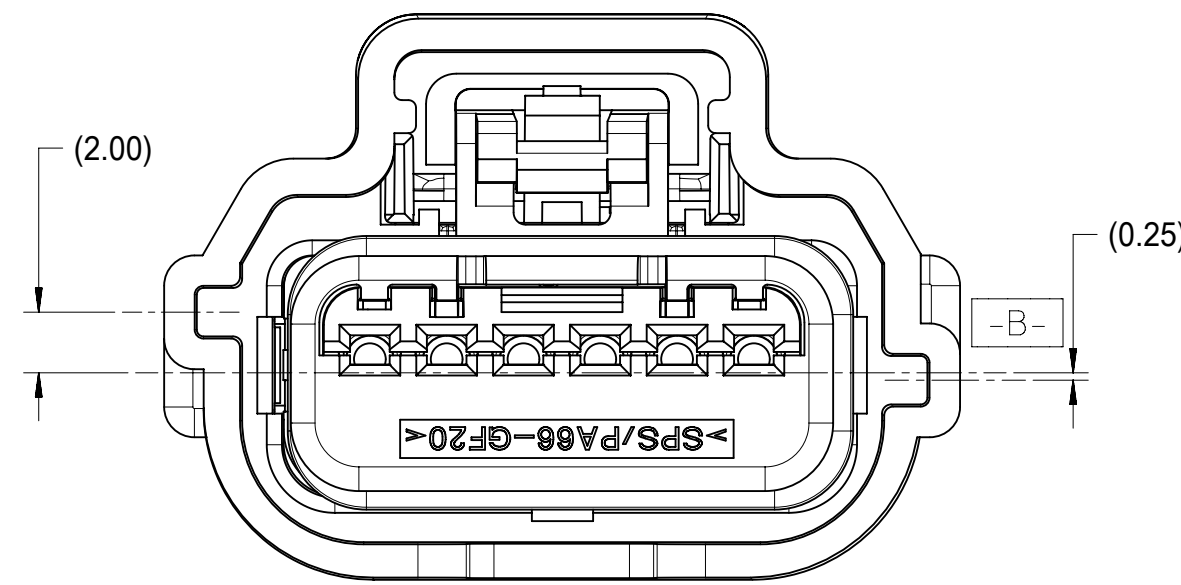
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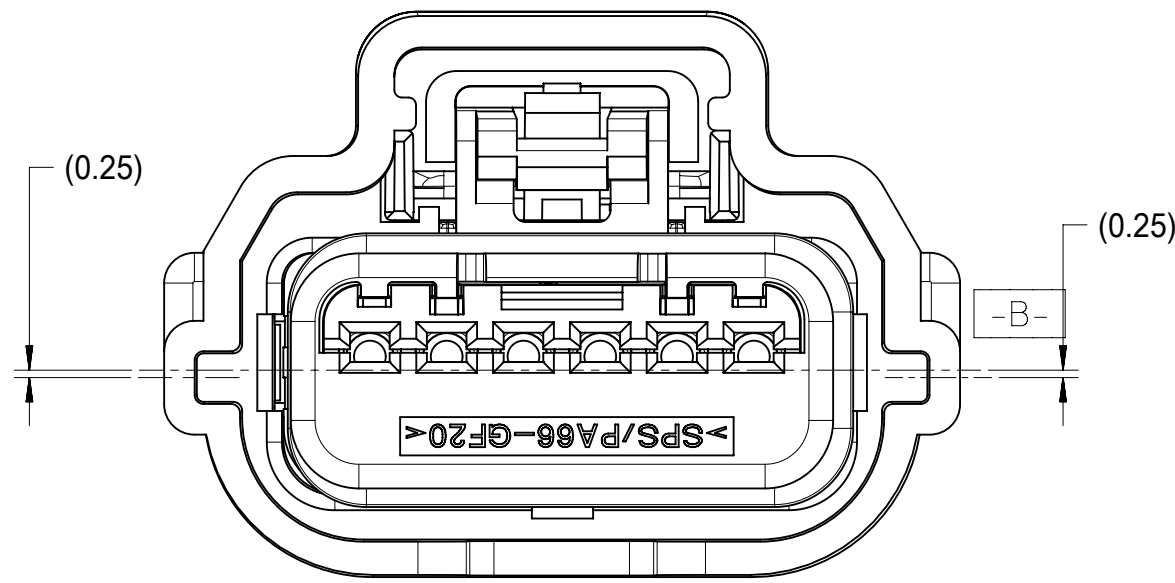
POLARIZATION A



POLARIZATION B

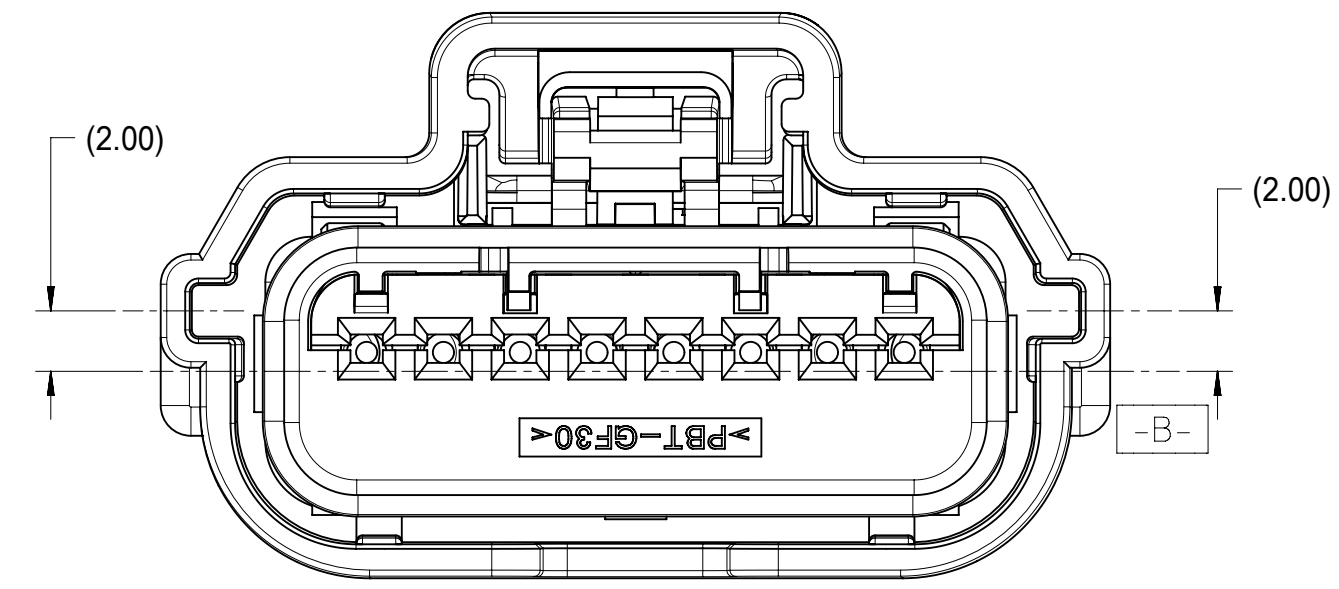


POLARIZATION C

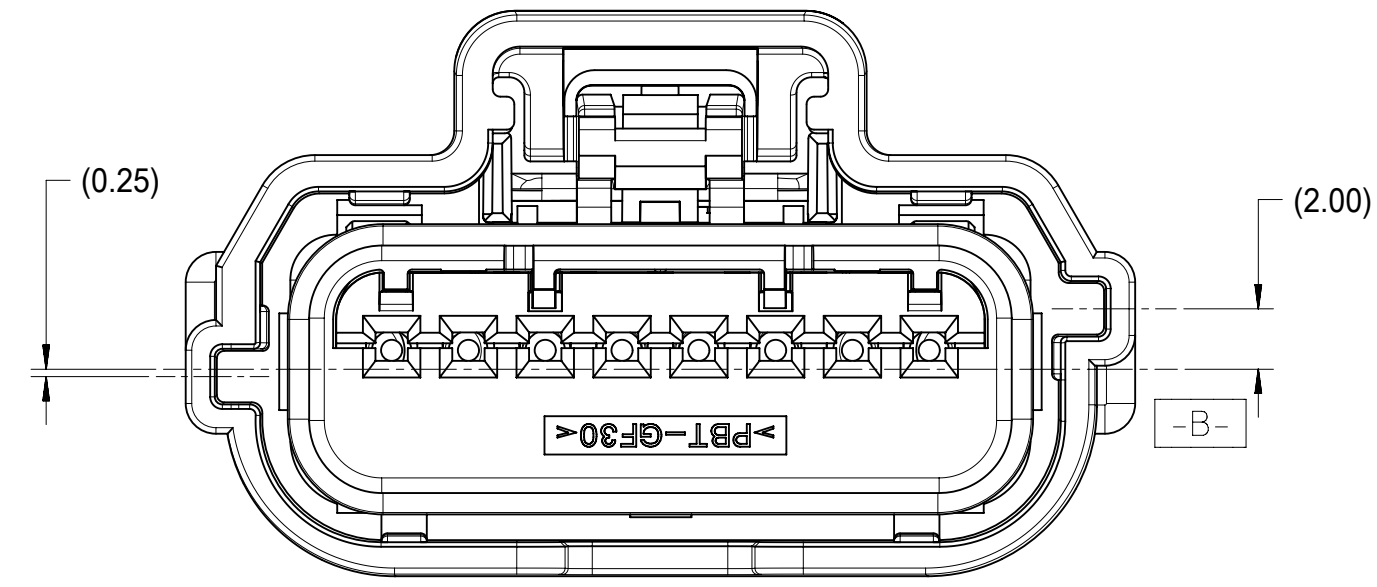


POLARIZATION D

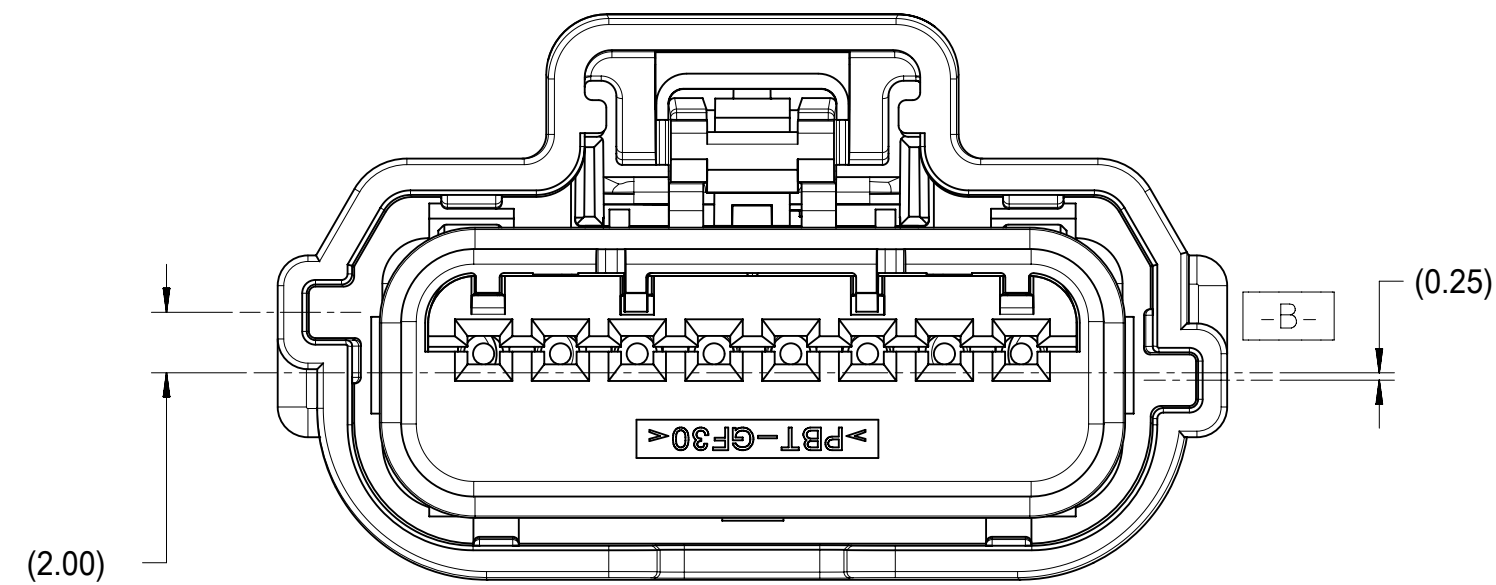
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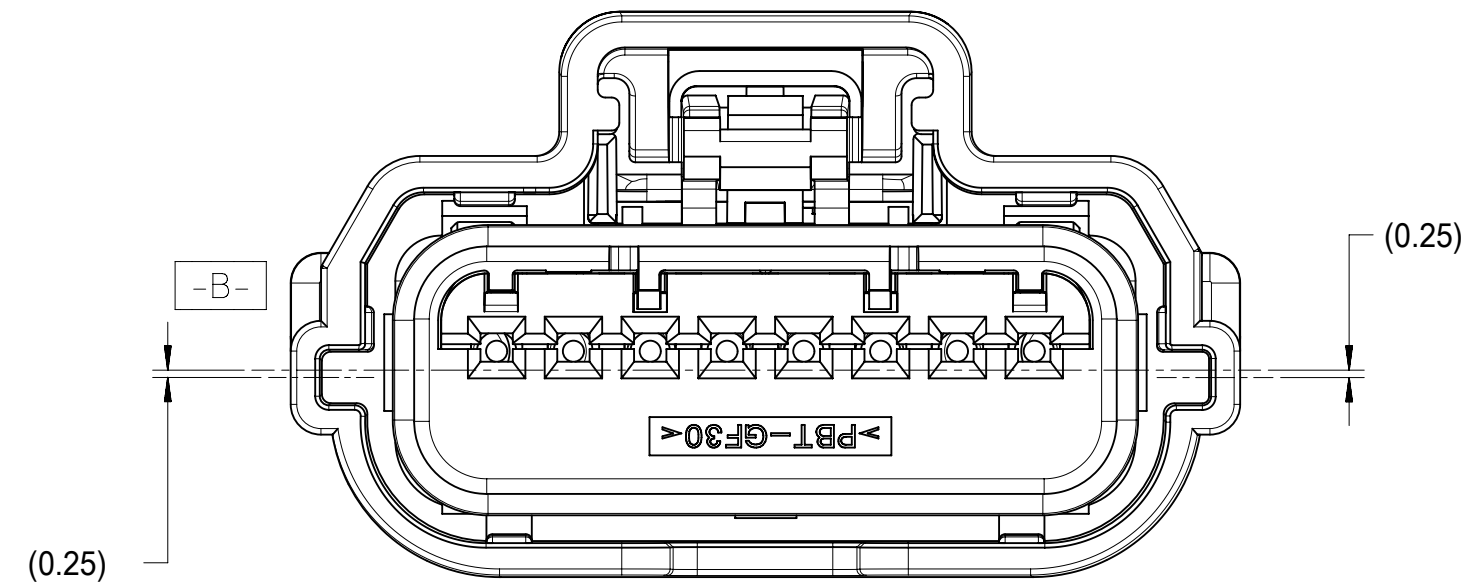
POLARIZATION A



POLARIZATION B



POLARIZATION C



POLARIZATION D

KEY CONFIGURATIONS

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
FA = 0 FE = 0 FE = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY									
mm		1:1																	
DIVISIONAL SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 679773 DRWN: MCHEN372021/09/23 CHK'D: LSONG052021/10/08 APPR: CDZHANG2021/10/11				PRODUCT CUSTOMER DRAWING									
		ANGULAR TOL ± 3.0 °																	
		4 PLACES		±						DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
		3 PLACES		±						SD-31402-211				PSD		001		U7	
		2 PLACES		± 0.13															
		1 PLACE		± 0.3															
0 PLACES		±		INITIAL REVISION:															
		DRWN: RCARLSON2004/03/01				2004/09/30													
		APPR: PBERG																	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
						D-SIZE		31402				GENERAL MARKET		5 OF 8					

[illegible]