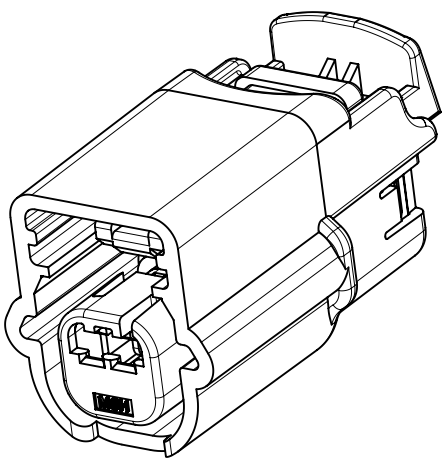
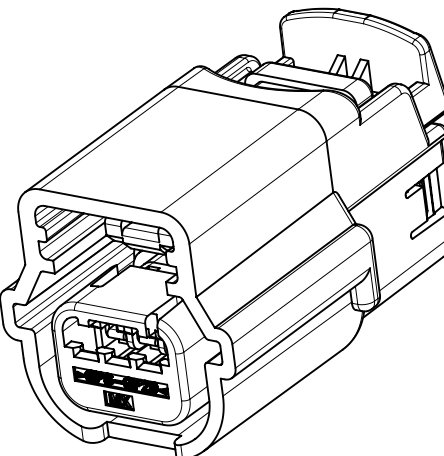
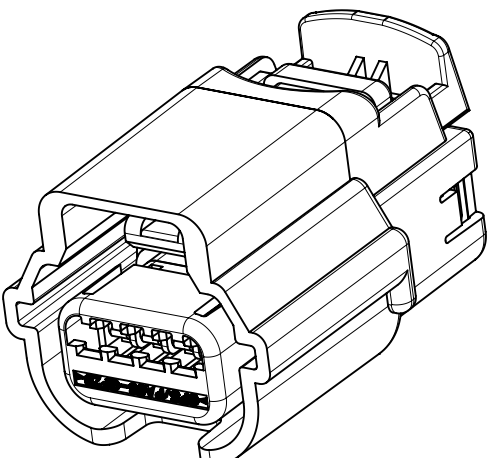




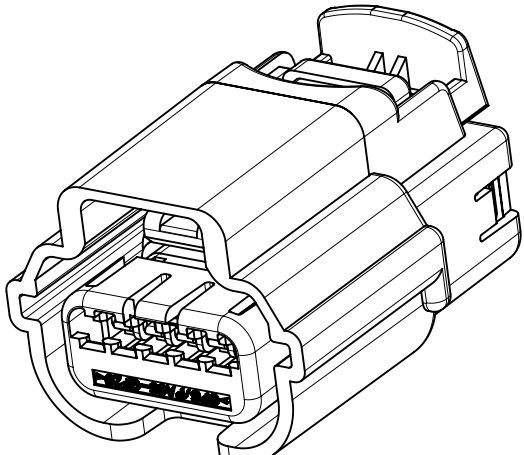
1X2



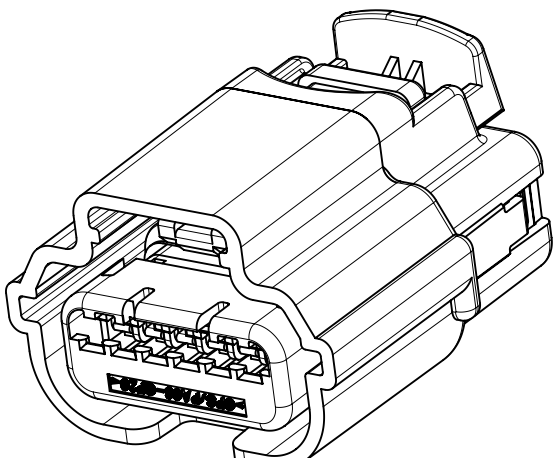
1X3



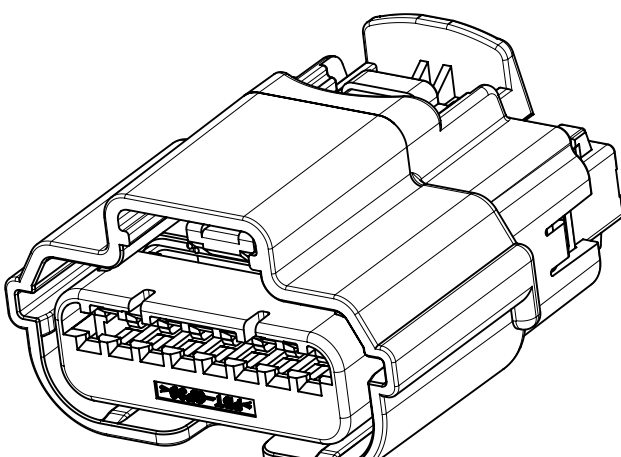
1X4



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: QEHS-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 CLIPSSLOT CONNECTOR: CLIP OVERHANGS CONNECTOR, PLEASE CHECK APPLICATION
(COULD CAUSE WIRE CHAFING)-SHORTER CLIP IS A RECOMMENDATION.

2. DESIGN - GEOMETRY:

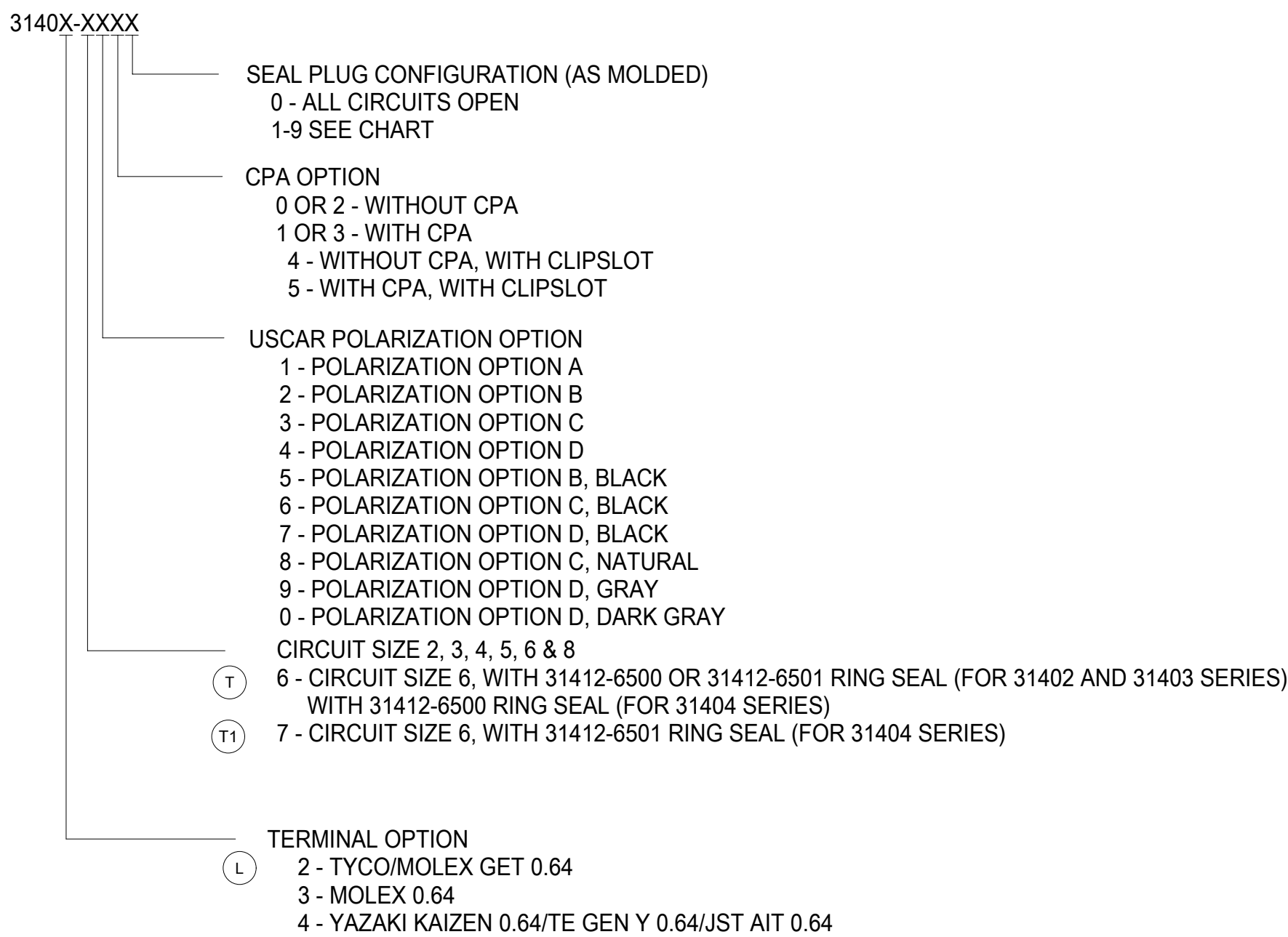
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED 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

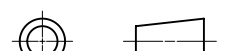
MATING INTERFACE DRAWING	
DESCRIPTION	INTERFACE DEFINITION
1X2	*064-S-002-1-Z02
1X3	*064-S-003-1-Z01
1X4	*064-S-004-1-Z02
1X5	*064-S-005-1-Z02
1X6	*064-S-006-1-Z02
1X8	*064-S-008-1-Z02

PART NUMBER LEGEND

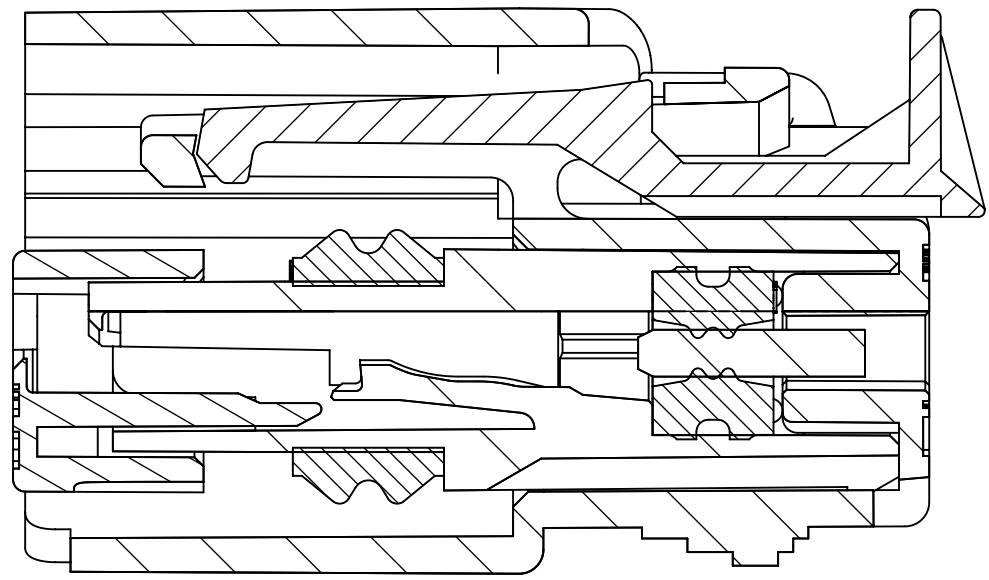
CONNECTOR ASSEMBLY



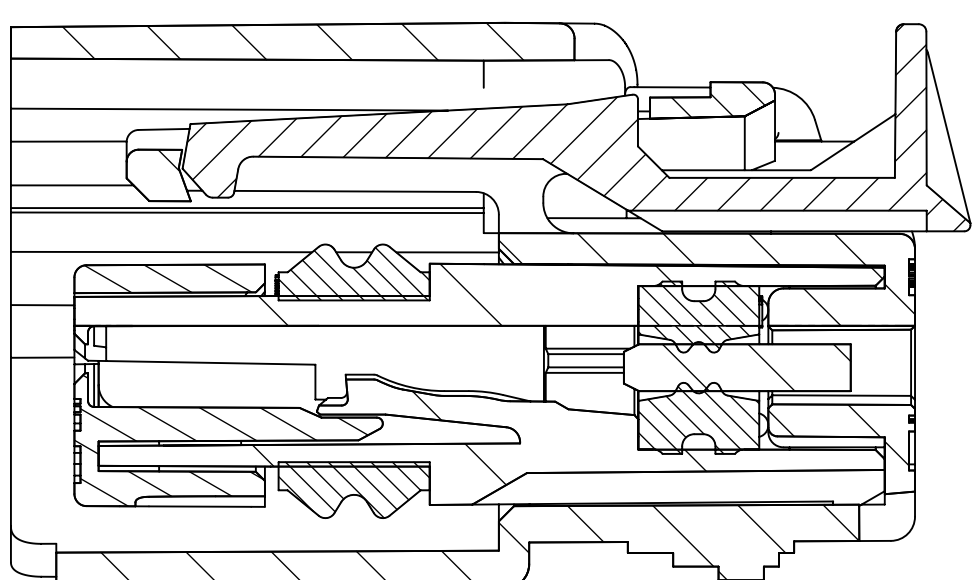
U	OBsolete P/N 31404-6XXX
T8	ADD P/N: 31404-7804, 31404-7814
T7	CHANGE STATUS FROM "TOOLED" TO "SALEABLE" ADD P/N 31404-7135/7125, 31404-7216/7206, 31404-7913/7903
T6	ADD P/N: 31404-7124, 31404-7134, 31404-7205, 31404-7215, 31404-7803, 31404-7813
T5	ADD P/N: 31404-7123, 31404-7133, 31404-7902, 31404-7912
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
S	ADD P/N 3140*-7XXXX FOR 1X6 WITH 31412-6501 RING SEAL VERSION ON SHEET 5
T	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
L	1. REDRAW SALES DRAWING 2. UPDATE TERMINAL INFORMATION FOR 31404 SERIES 3. ADD P/N: 31403-6212; 31403-6202
REV	REV DESCRIPTION

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 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY							
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 620130 DRWN: PZHANG71 2019/06/26 CHK'D: GLI04 2019/07/10 APPR: JDENG02 2019/07/11								PRODUCT CUSTOMER DRAWING			
ANGULAR TOL ± 3.0°															
4 PLACES		±						DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
3 PLACES		±						SD-31402-211		PSD		001		U	
2 PLACES		± 0.13													
1 PLACE		± 0.3		INITIAL REVISION:		2004/03/01									
0 PLACES		±		DRWN: RCARLSON 2004/03/01		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		1 OF 9	

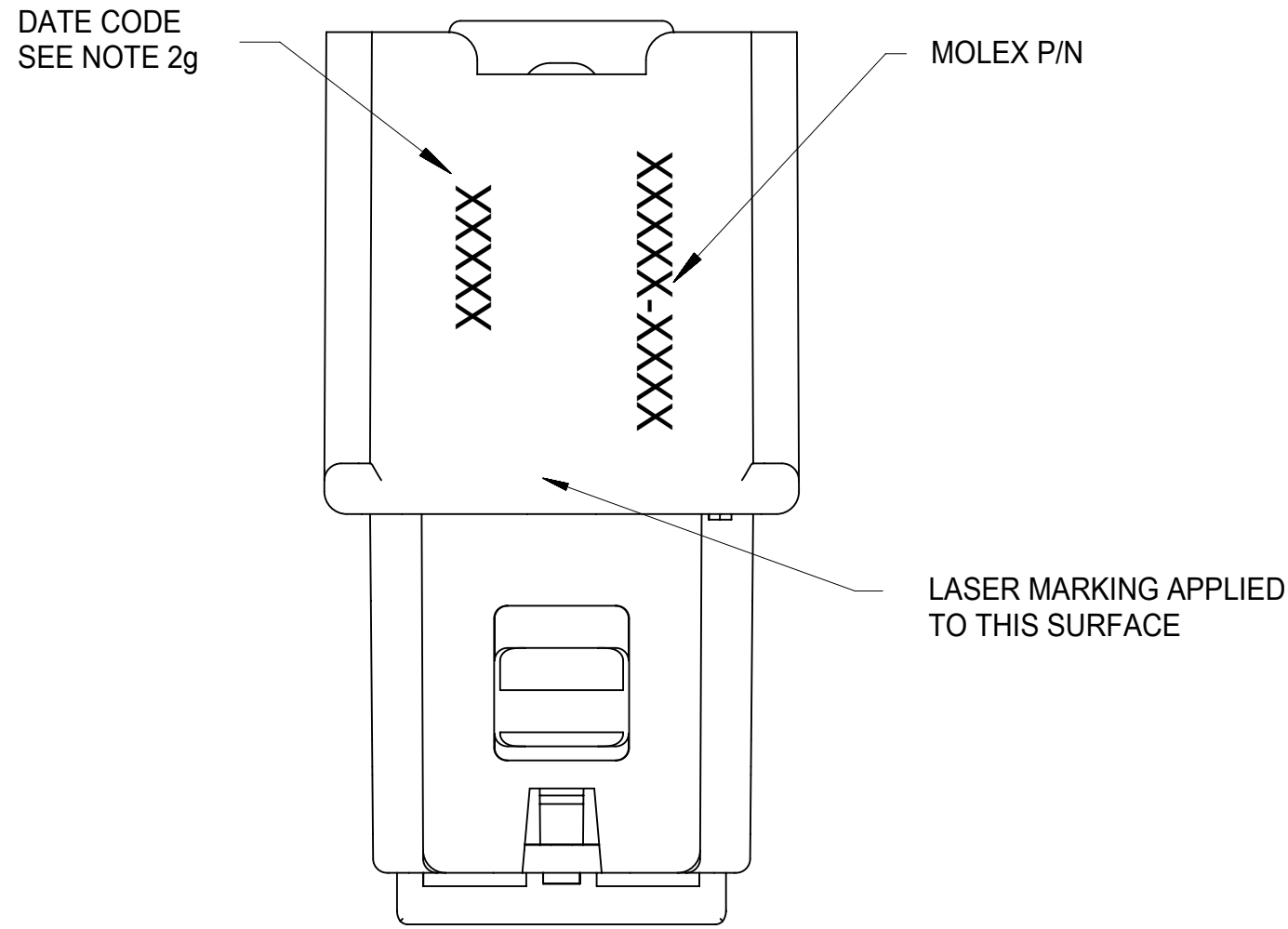
DOCUMENT STATUS	P1	RELEASE DATE	2019/07/11	06:05:49
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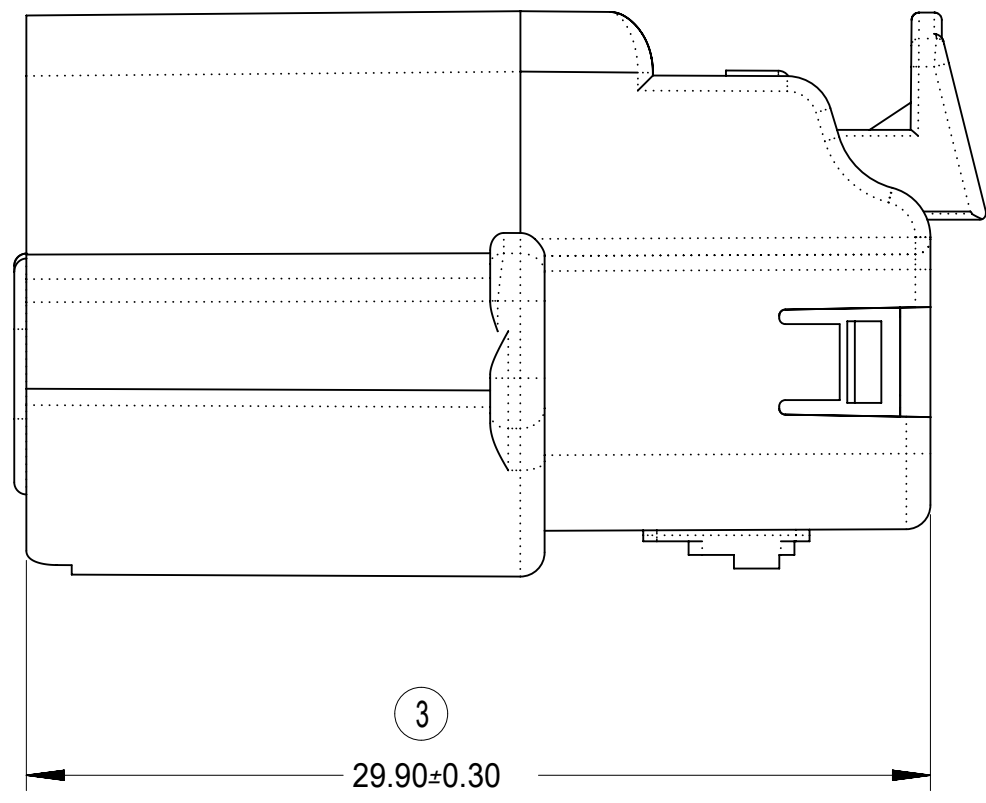
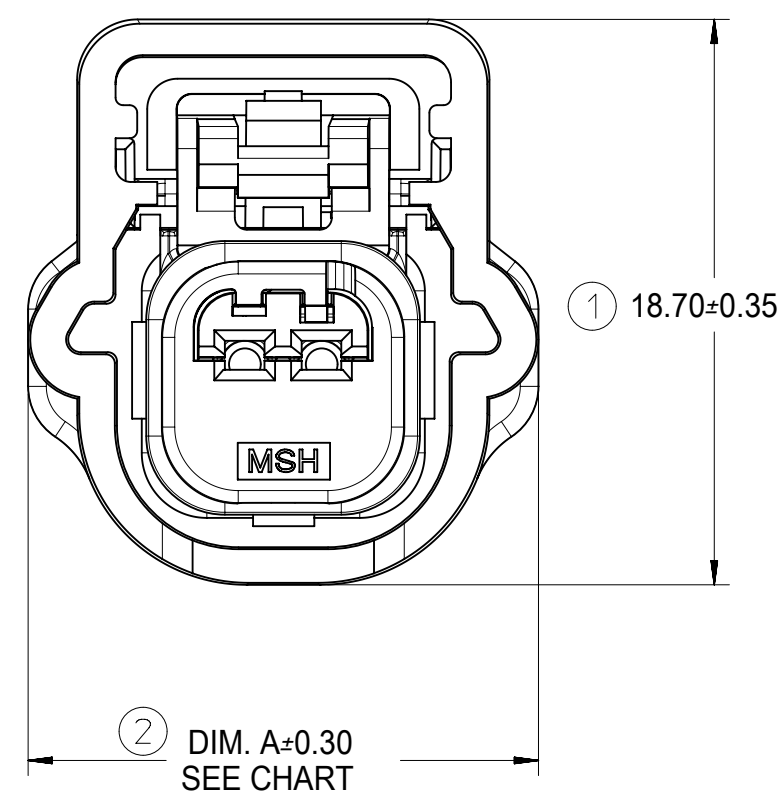
SECTION A-A
TPA SHOWN IN AS-SHIPPED
PRE-LOCKED POSITION
SEE NOTE 1c



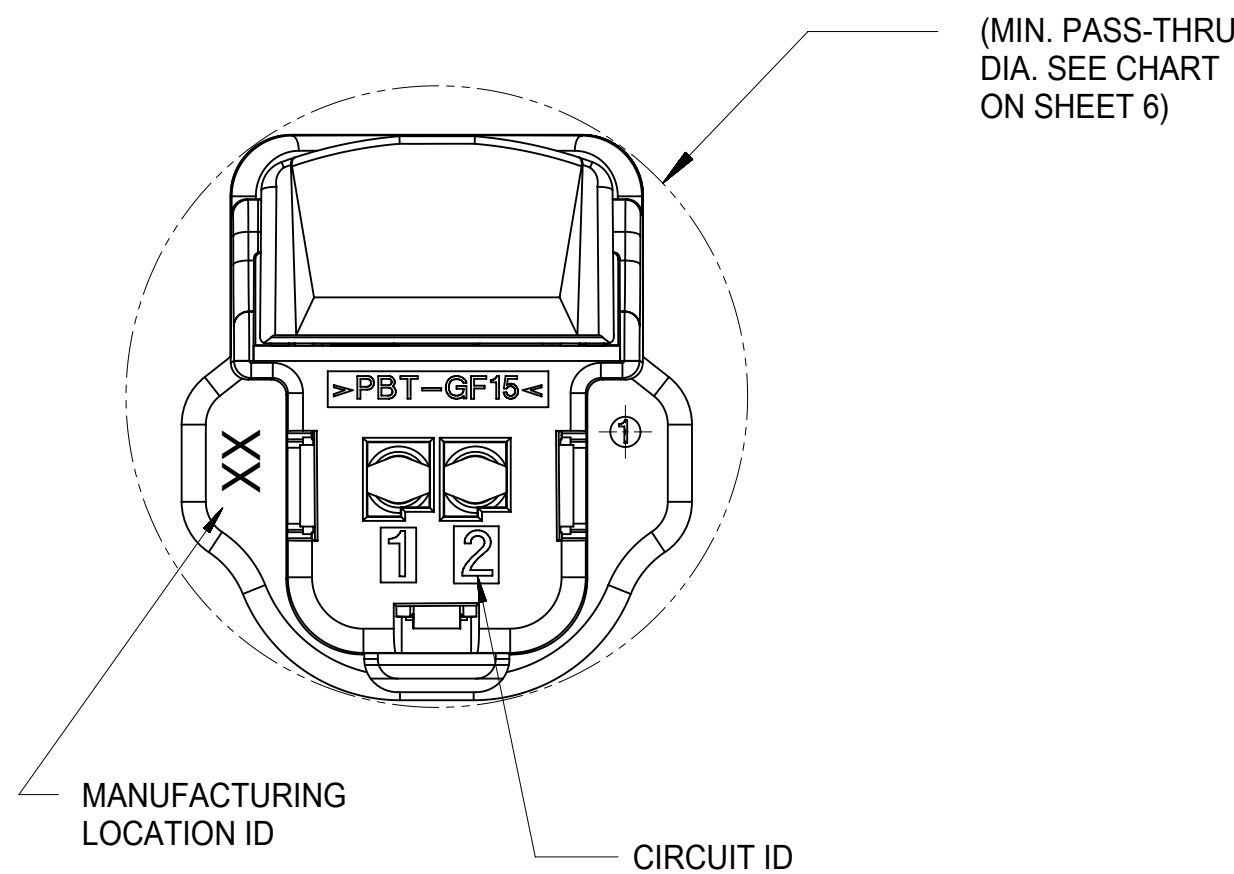
SECTION A-A
TPA SHOWN IN FINAL
LOCKED POSITION



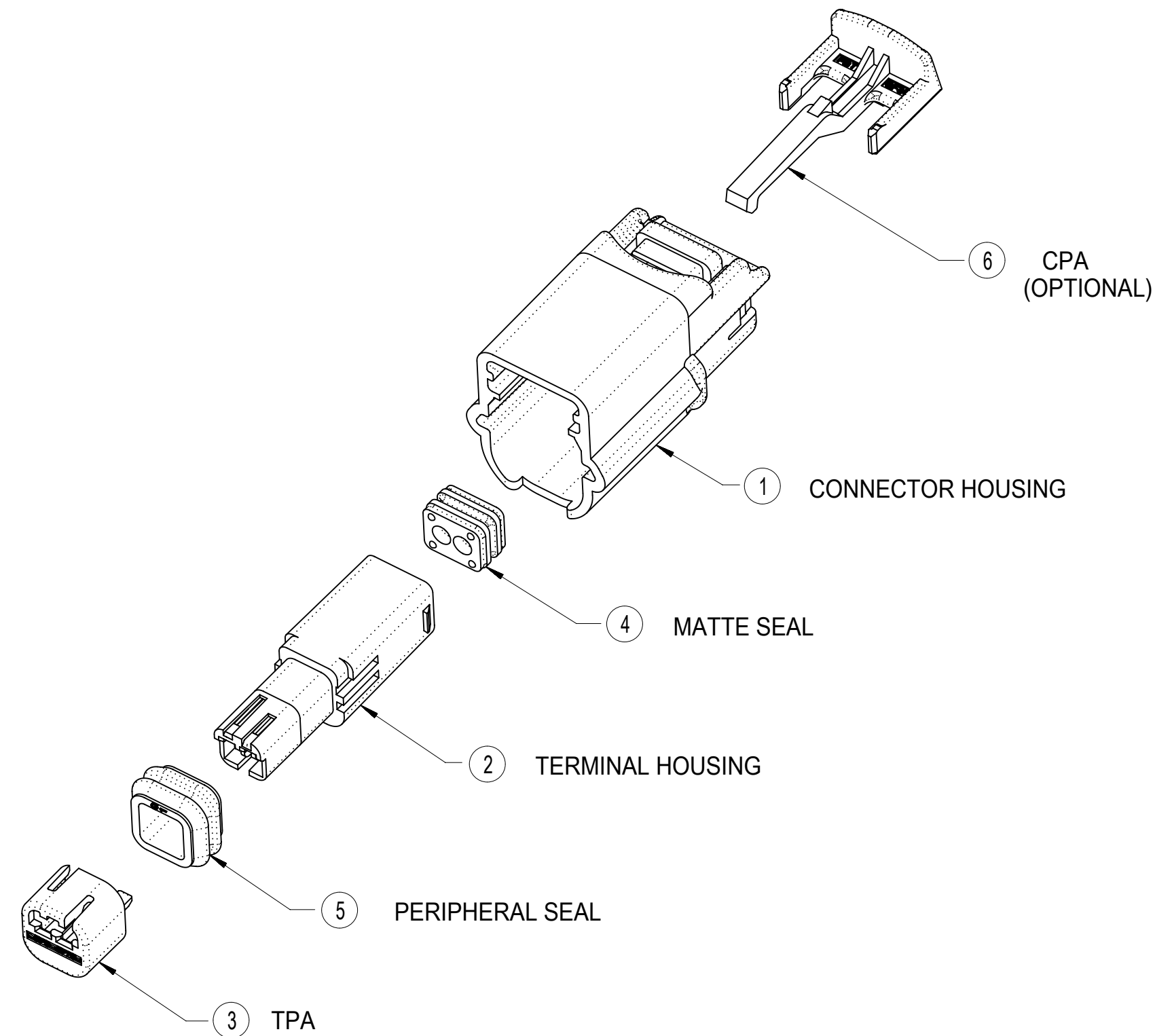
BOTTOM VIEW



RIGHT SIDE VIEW

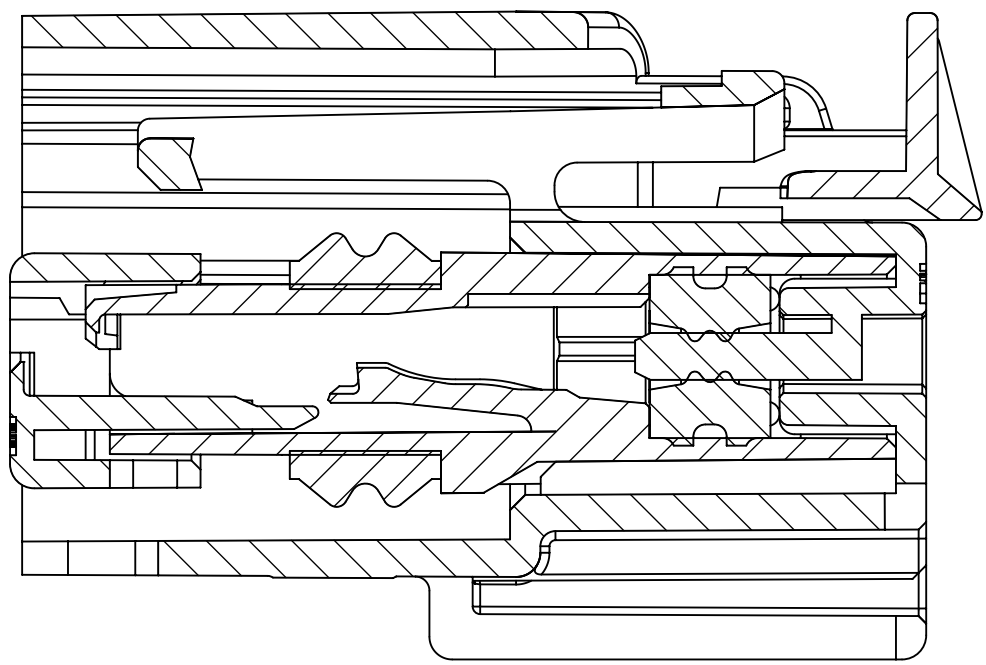


BACK VIEW



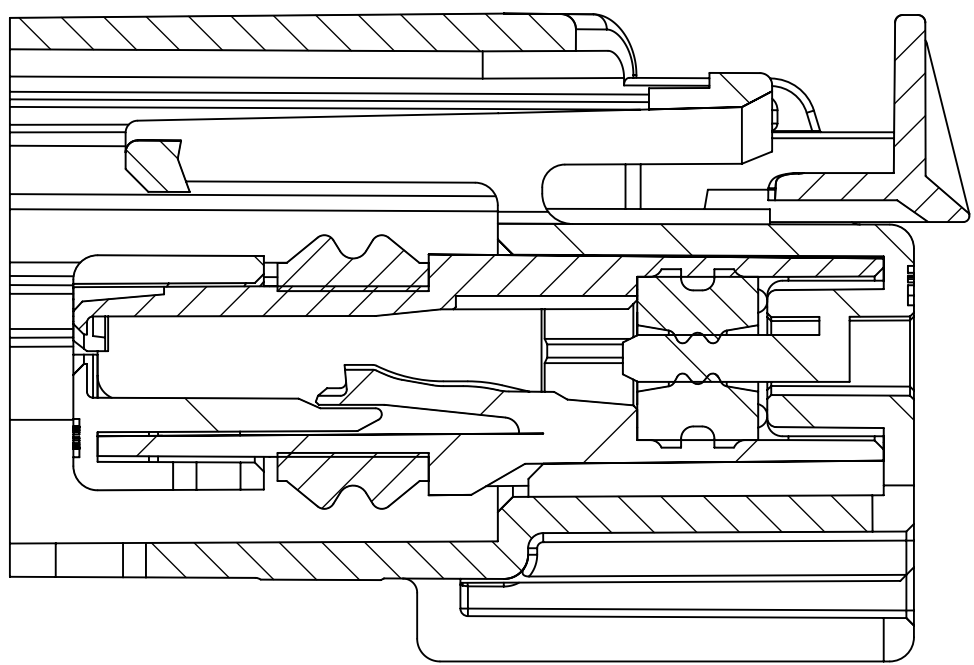
ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

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									
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 620130 DRWN: PZHANG71 2019/06/26 CHK'D: GLI04 2019/07/10 APPR: JDENG02 2019/07/11				0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY			
= 0	ANGULAR TOL ± 3.0 °										
= 0	4 PLACES	±									
= 0	3 PLACES	±									
= 0	2 PLACES	± 0.13									
= 0	1 PLACE	± 0.3	INITIAL REVISION: DRWN: RCARLSON 2004/03/01 APPR: PBERG 2004/09/30				PRODUCT CUSTOMER DRAWING				
= 0	0 PLACES	±									
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER SD-31402-211		DOC TYPE PSD	DOC PART 001	REVISION U	
= 0				D-SIZE 31402		MATERIAL NUMBER		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 9	



SECTION C-C

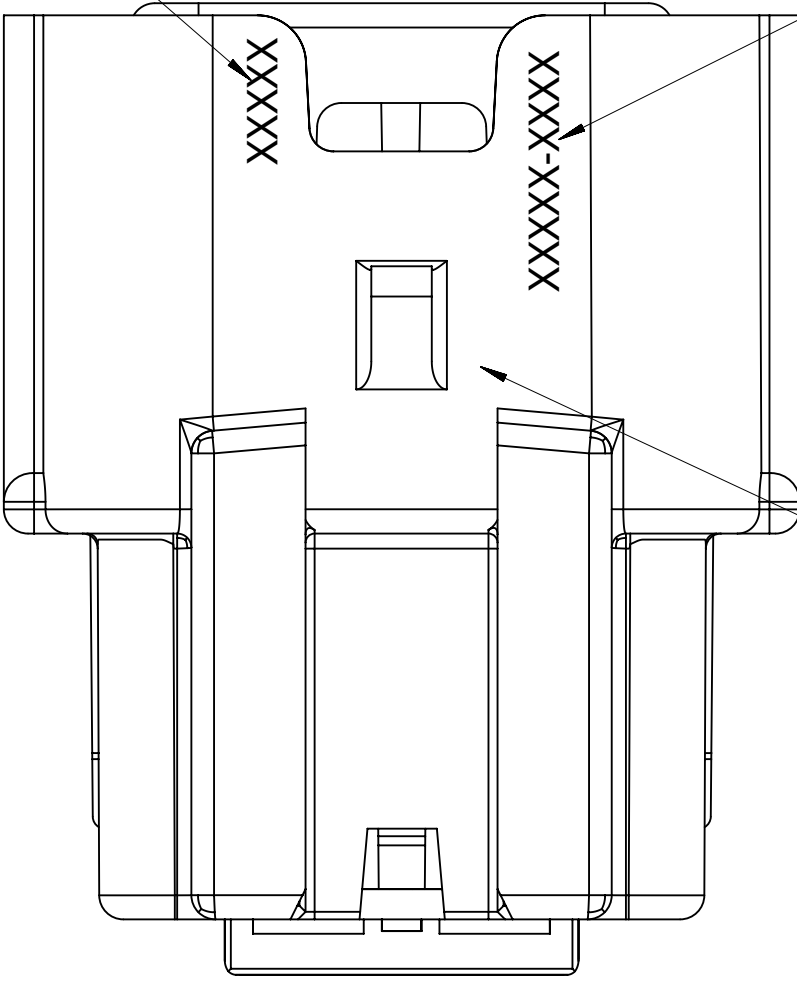
TPA SHOWN IN AS-SHIPPED
PRE-LOCKED POSITION
SEE NOTE 1c



SECTION C-C

TPA SHOWN IN FINAL
LOCKED POSITION

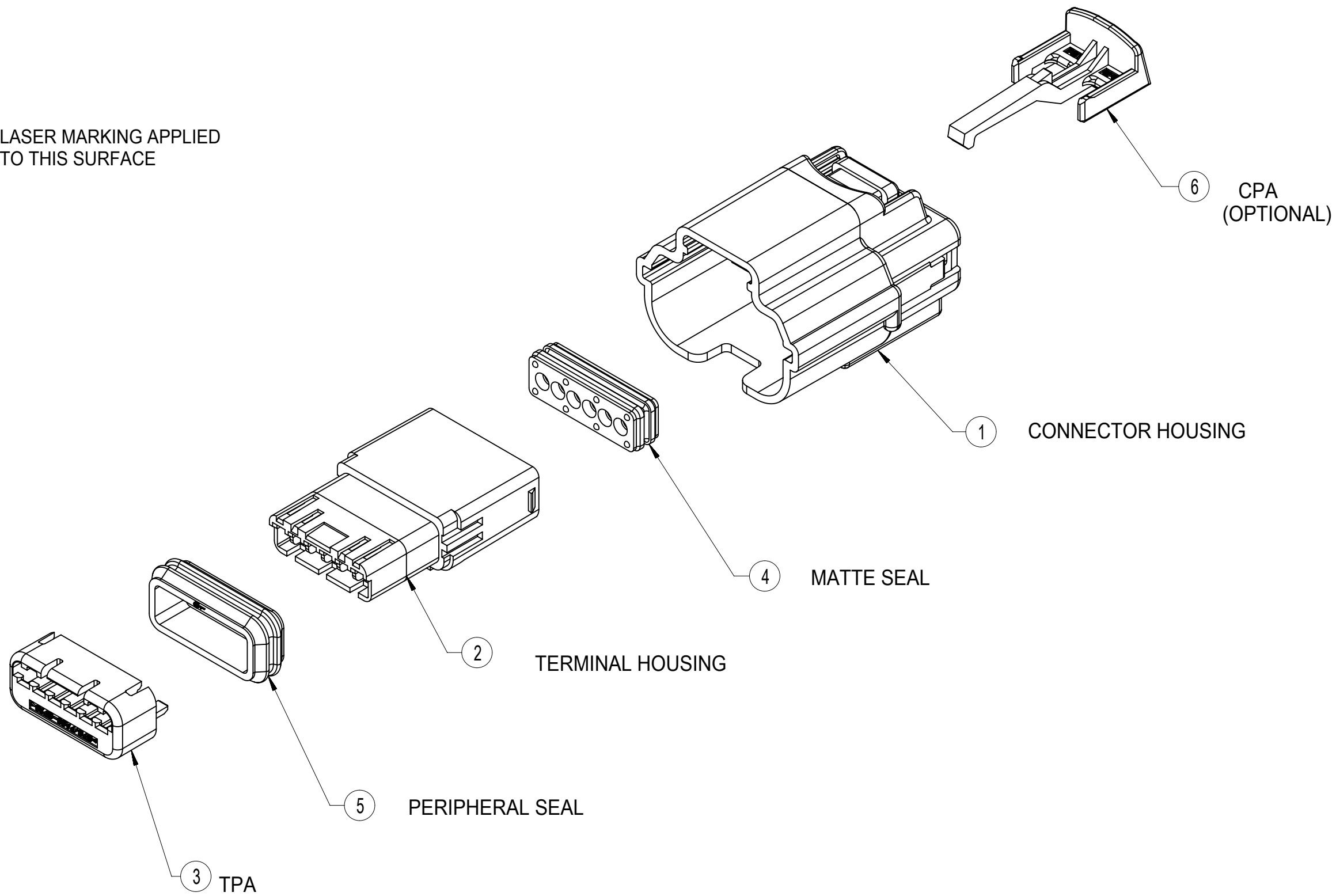
DATE CODE
SEE NOTE 2g



MOLEX P/N

LASER MARKING APPLIED
TO THIS SURFACE

BOTTOM VIEW



CPA
(OPTIONAL)

CONNECTOR HOUSING

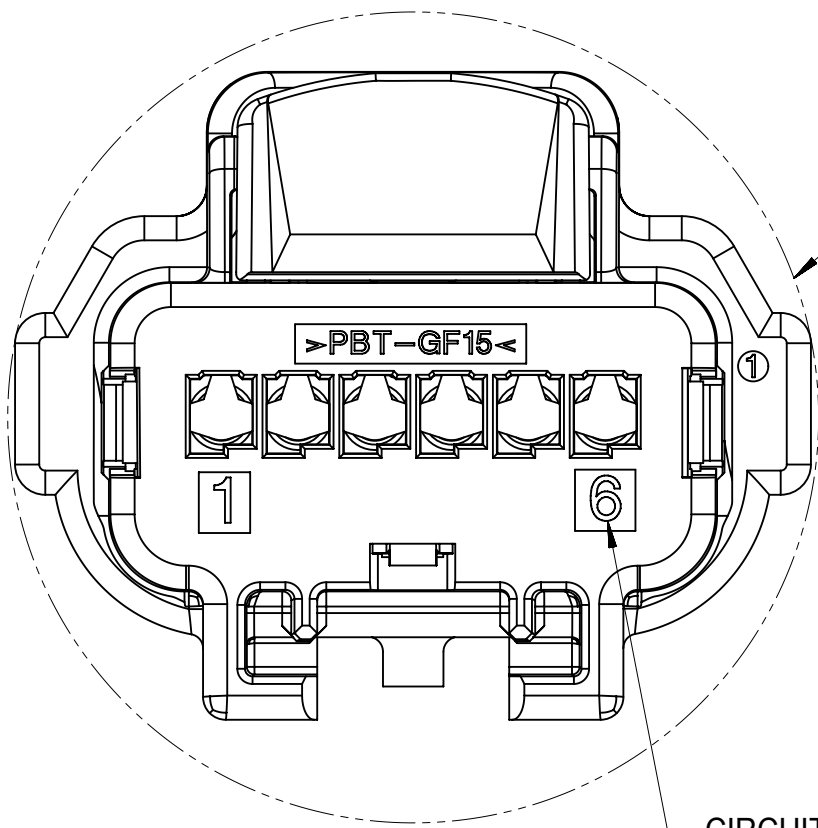
MATTE SEAL

TERMINAL HOUSING

PERIPHERAL SEAL

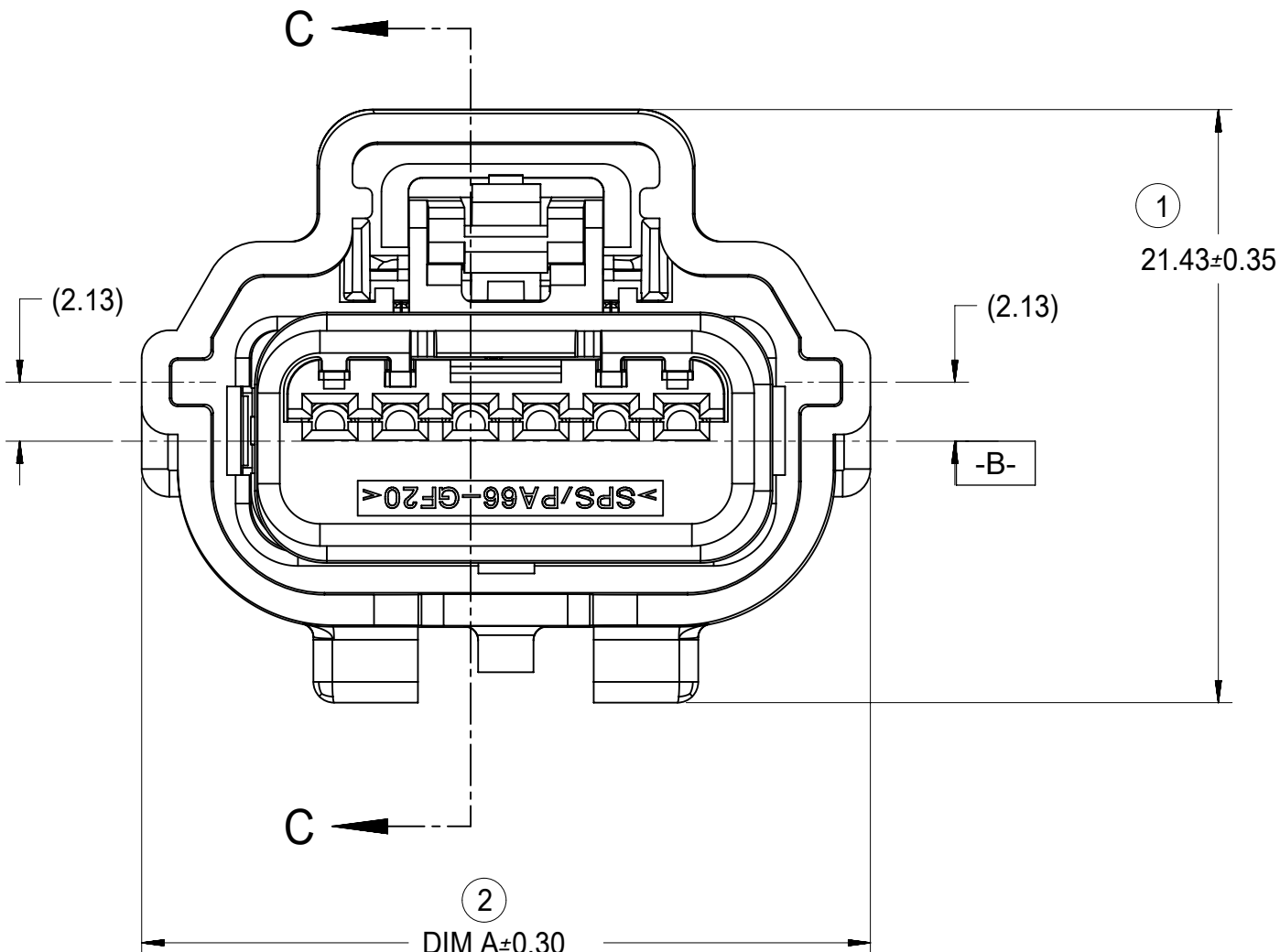
TPA

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



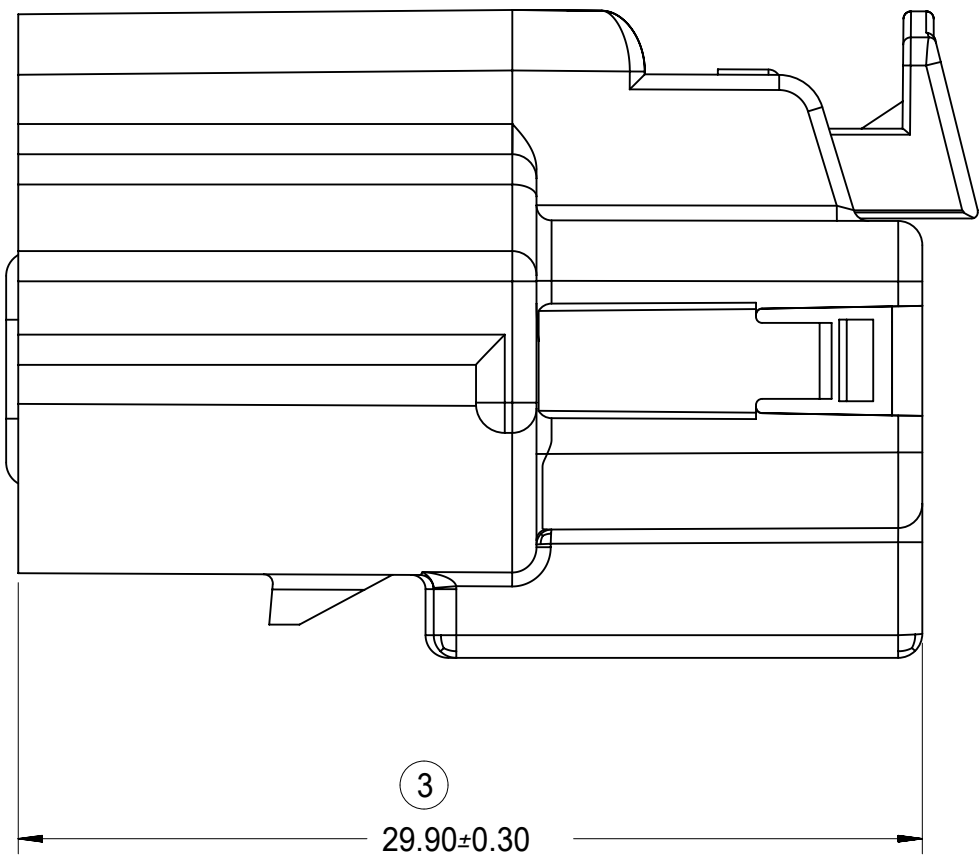
CIRCUIT ID

BACK VIEW



FRONT VIEW

POLARIZATION A

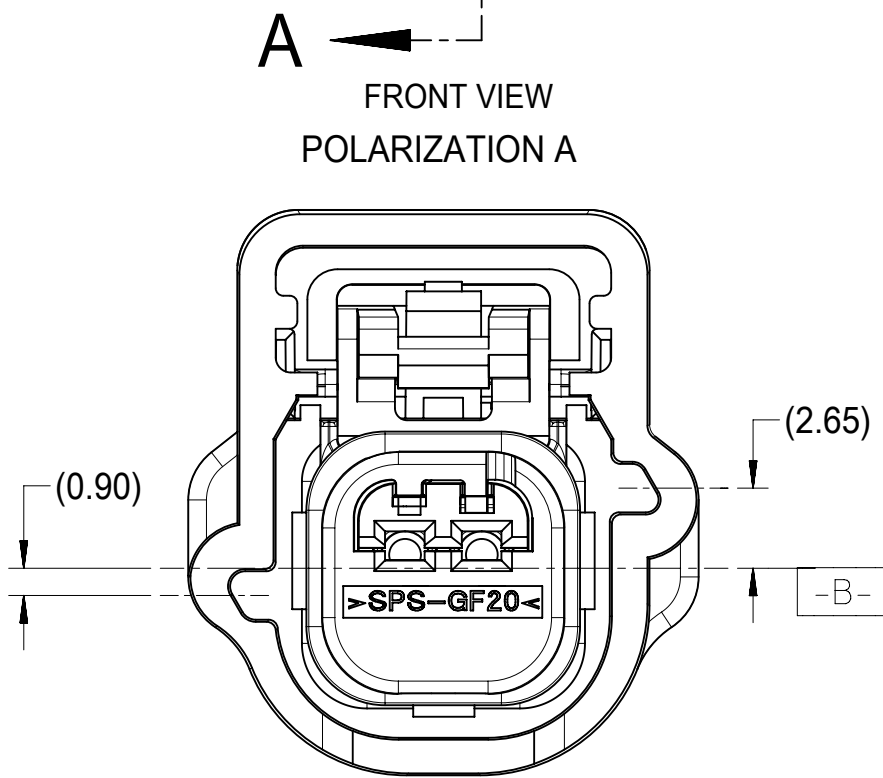
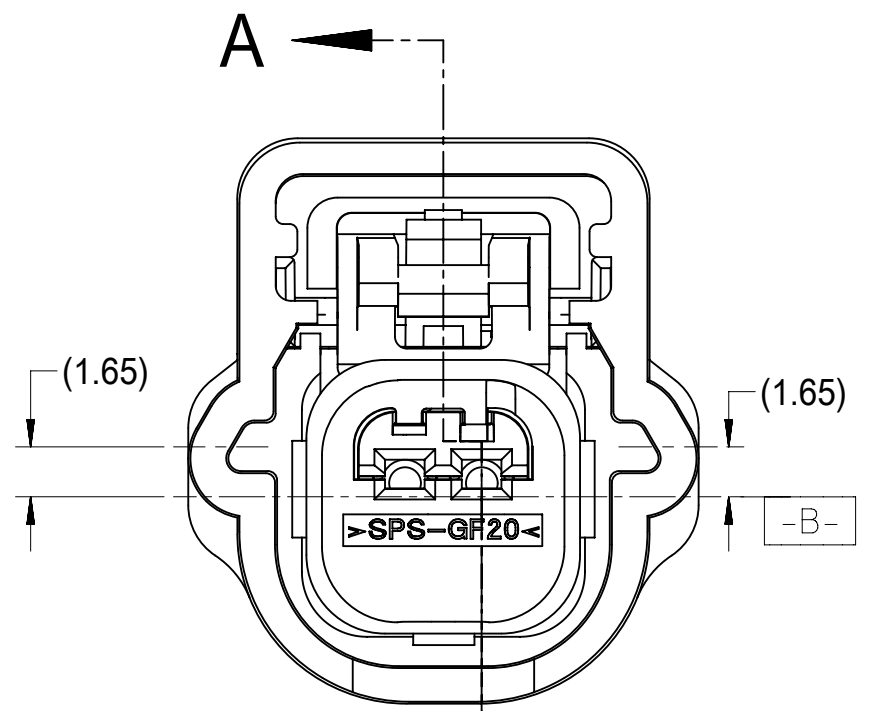


RIGHT SIDE VIEW

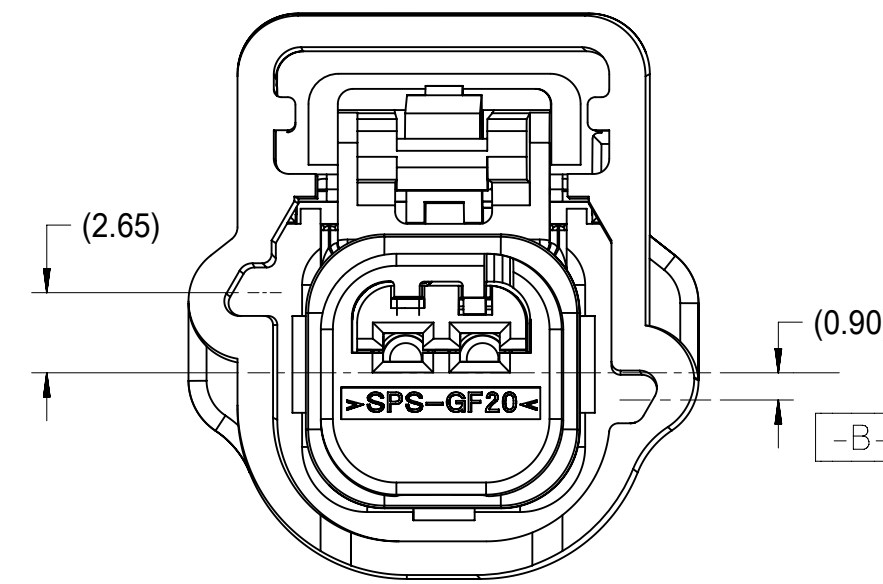
ITEM	DESCRIPTION	COLOR	MATERIAL
1	CONNECTOR HOUSING	SEE CHART	PBT GF15
2	TERMINAL HOUSING	BLACK	SPS/PA66 GF30
3	TPA	NATURAL	SPS/PA66 GF20
4	MATTE SEAL	SEE CHART	SILICONE RUBBER
5	PERIPHERAL SEAL	SEE CHART	SILICONE RUBBER
6	CPA - OPTIONAL	RED	PBT GF30

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex	
DIMENSION UNITS		SCALE		EC NO: 620130		0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY	
= 0		mm		1:1		PRODUCT CUSTOMER DRAWING	
= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: PZHANG71		2019/06/26	
= 0		ANGULAR TOL ± 3.0°		CHK'D: GLI04		2019/07/10	
= 0		4 PLACES ±		APPR: JDENG02		2019/07/11	
= 0		3 PLACES ±		INITIAL REVISION:		DOCUMENT NUMBER	
= 0		2 PLACES ± 0.13		DRWN: RCARLSON		2004/03/01	
= 0		1 PLACE ± 0.3		APPR: PBERG		2004/09/30	
= 0		0 PLACES ±		THIRD ANGLE PROJECTION		DRAWING	
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		D-SIZE		SERIES	
= 0				31402		MATERIAL NUMBER	
						CUSTOMER	
						SHEET NUMBER	
						3 OF 9	

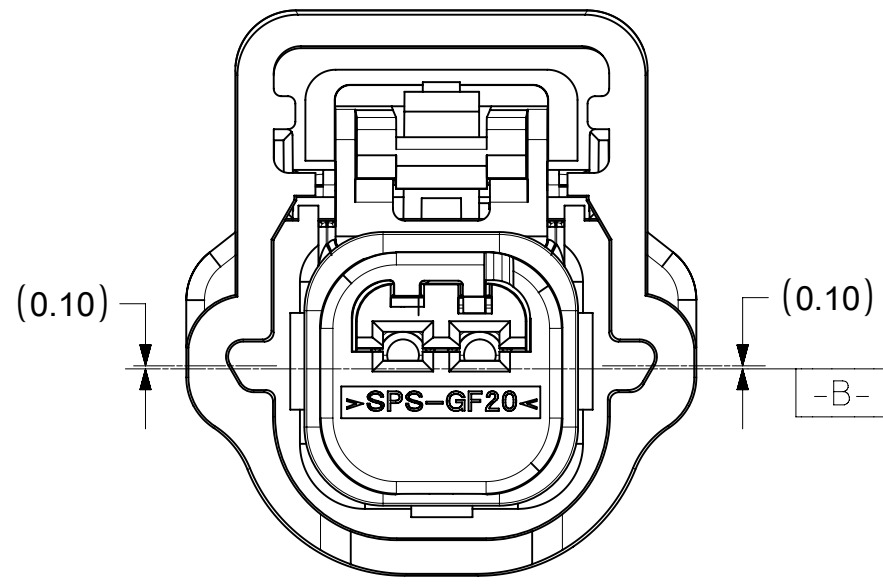
1X2



POLARIZATION B

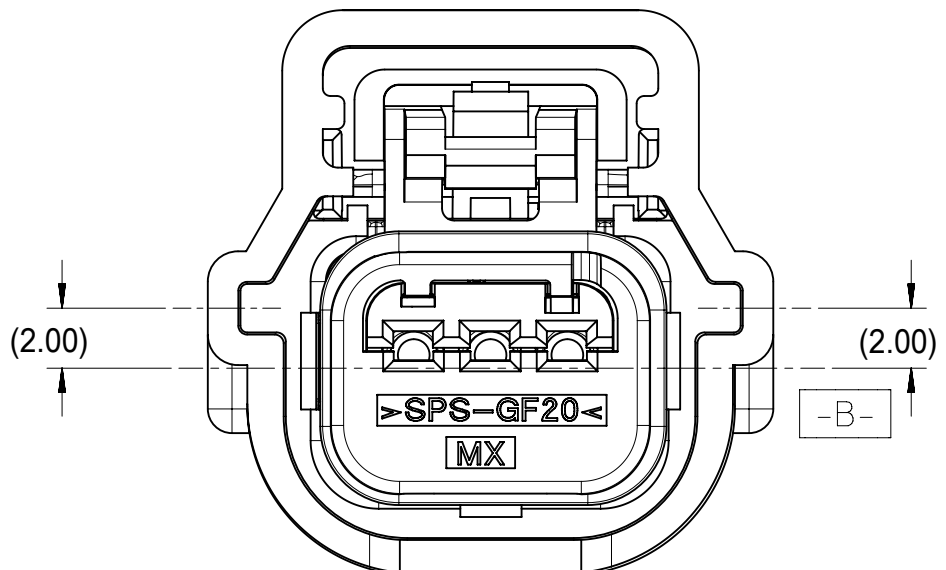


POLARIZATION C

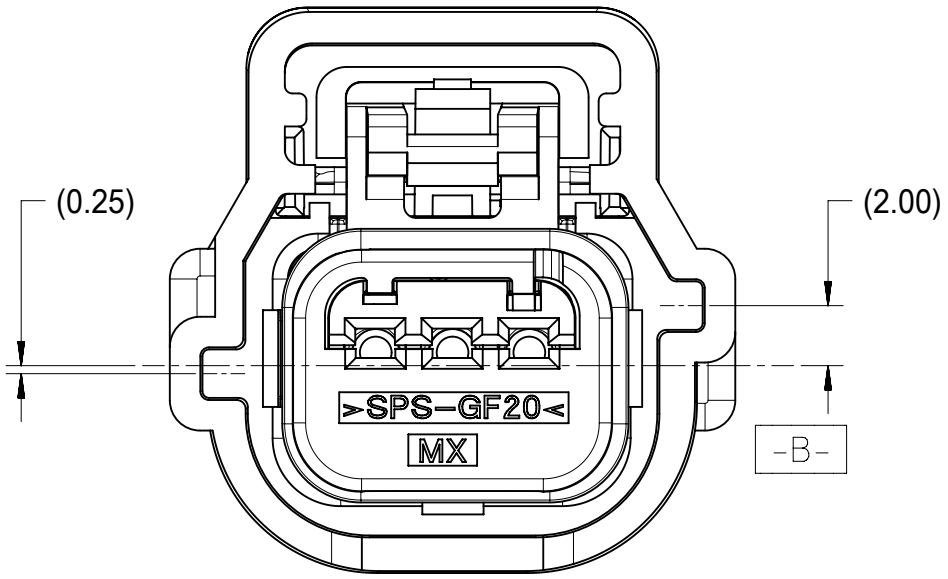


POLARIZATION D

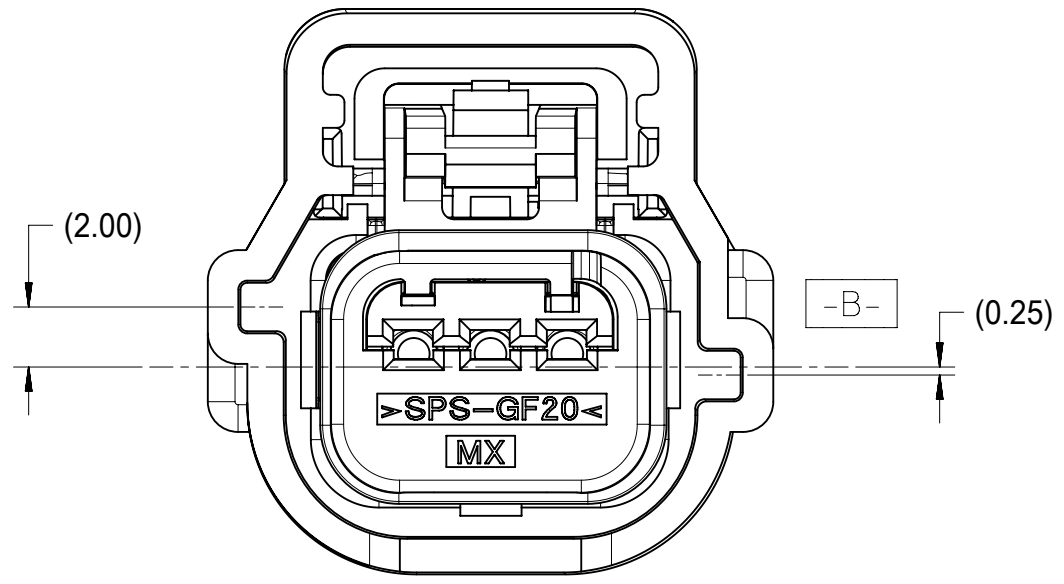
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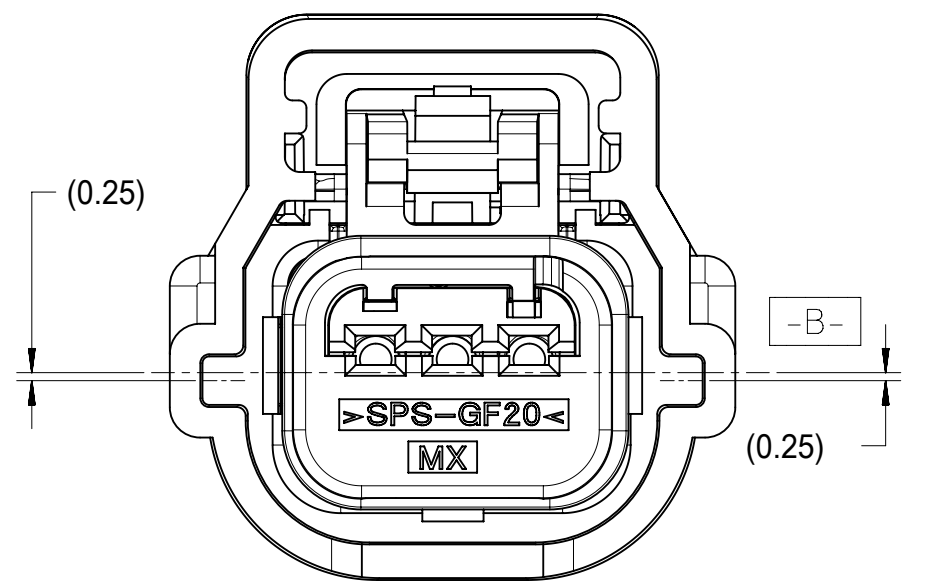
POLARIZATION A



POLARIZATION B

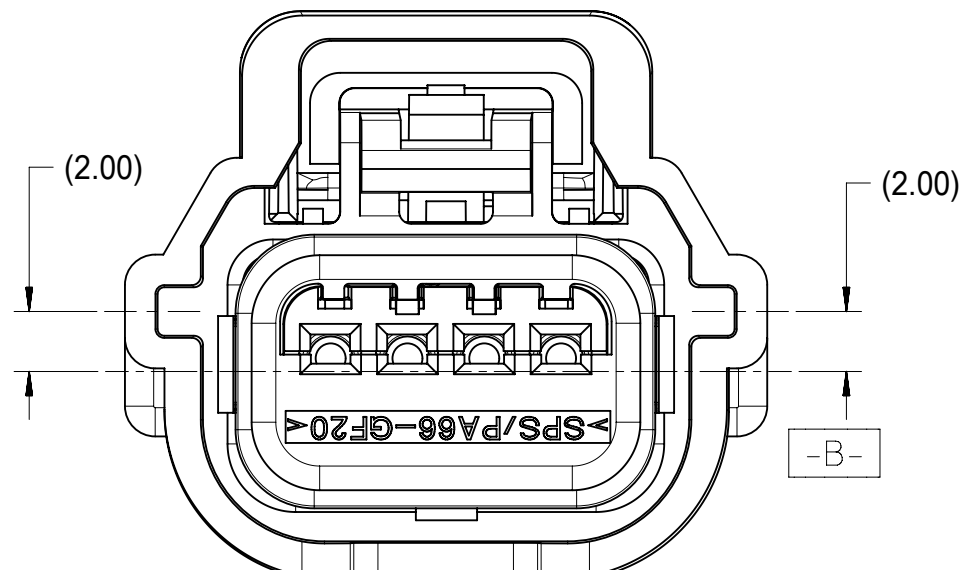


POLARIZATION C



POLARIZATION D

1X4

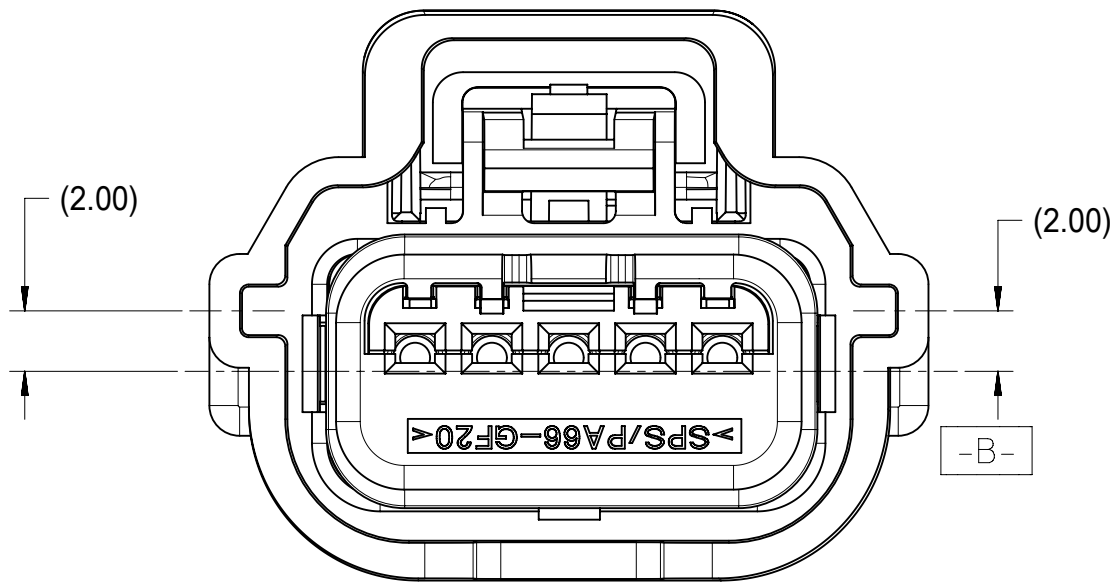


POLARIZATION A

KEY CONFIGURATIONS

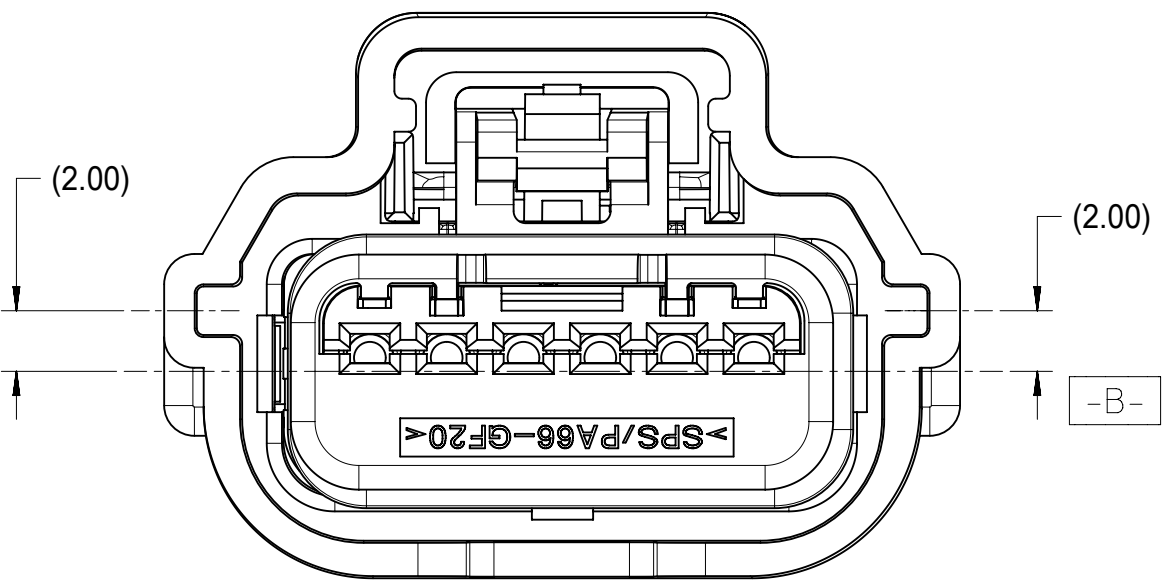
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
	= 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: EC NO: 620130 DRWN: PZHANG71 2019/06/26 CHK'D: GLI04 2019/07/10 APPR: JDENG02 2019/07/11 INITIAL REVISION: DRWN: RCARLSON 2004/03/01 APPR: PBERG 2004/09/30				molex 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY							
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)												PRODUCT CUSTOMER DRAWING			
	= 0	ANGULAR TOL		± 3.0°						DOCUMENT NUMBER SD-31402-211							
	= 0	4 PLACES		±										MATERIAL NUMBER			
	= 0	3 PLACES		±													
	= 0	2 PLACES		± 0.13													
	= 0	1 PLACE		± 0.3													
	= 0	0 PLACES		±													
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								THIRD ANGLE PROJECTION		DRAWING		SERIES			
	= 0											D-SIZE		31402			

1X5

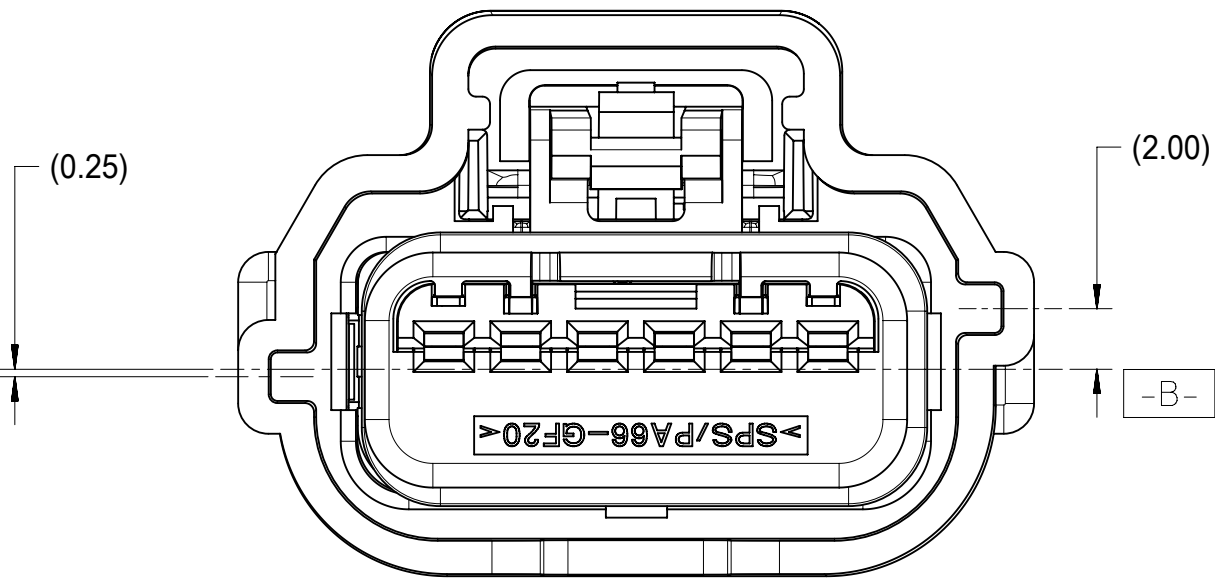


POLARIZATION A

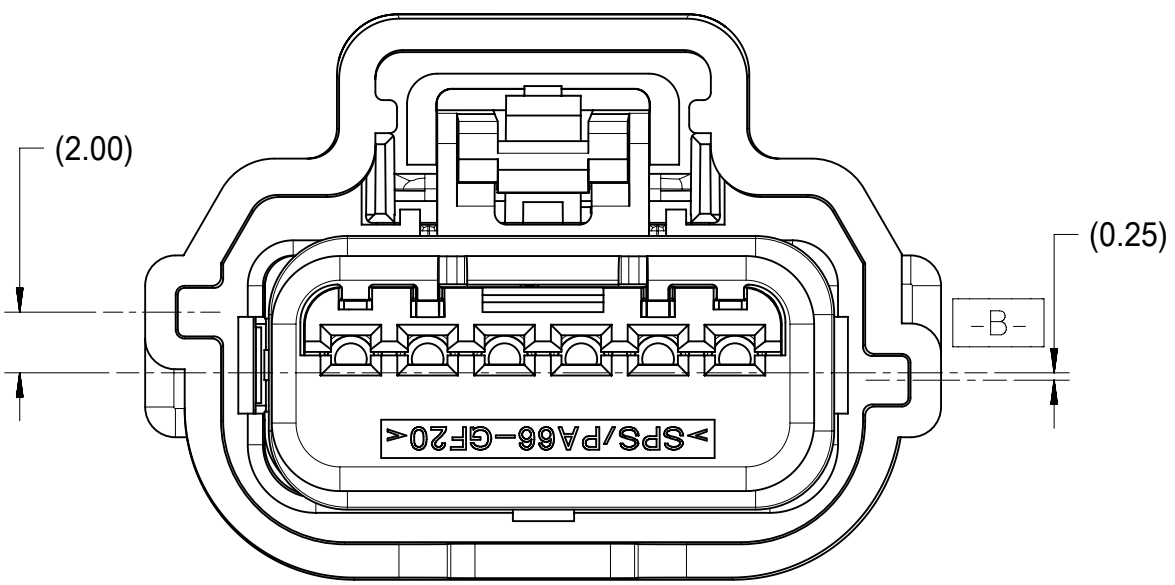
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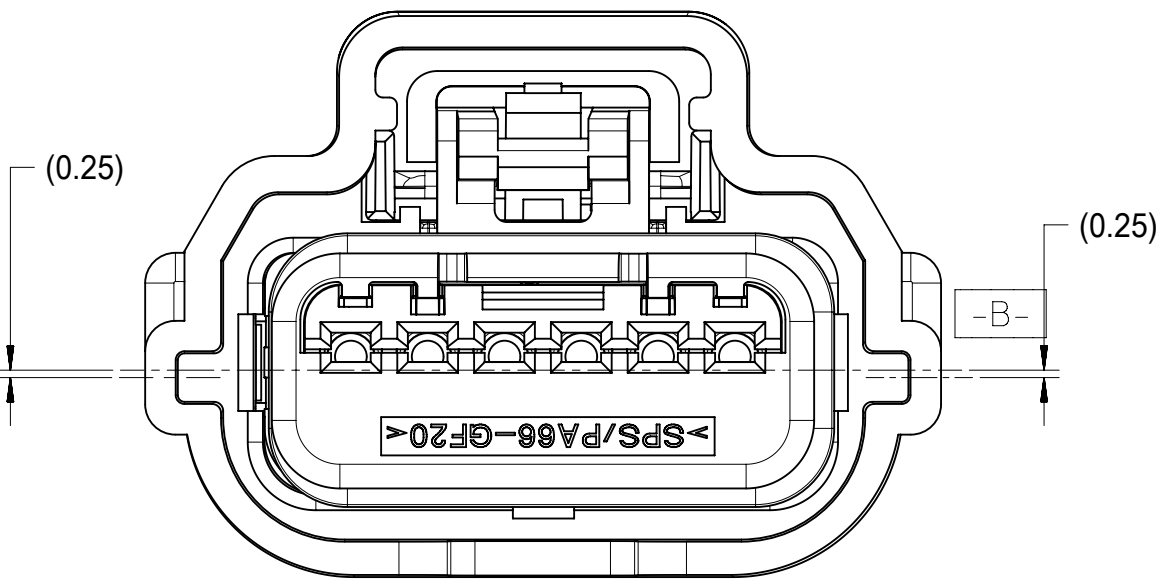
POLARIZATION A



POLARIZATION B

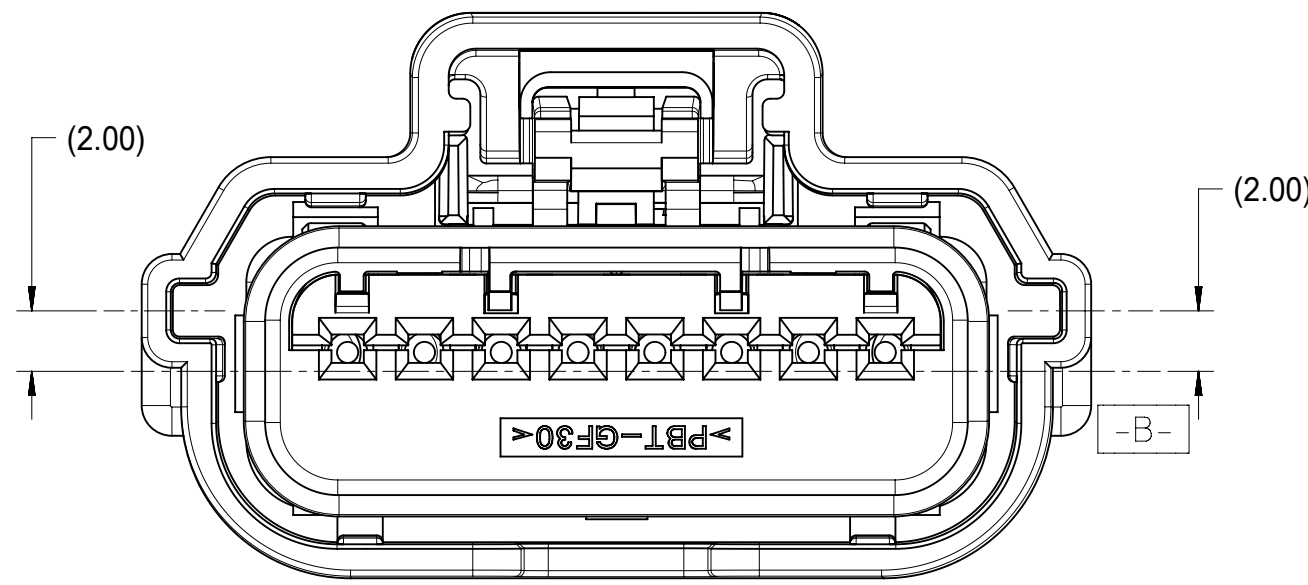


POLARIZATION C

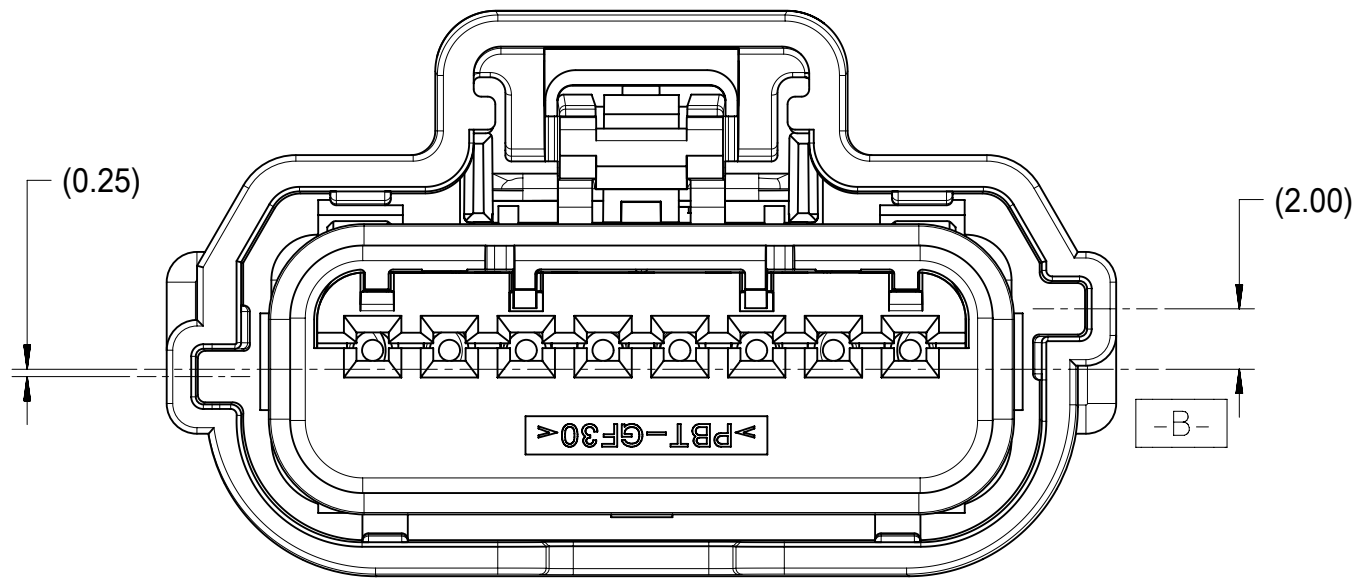


POLARIZATION D

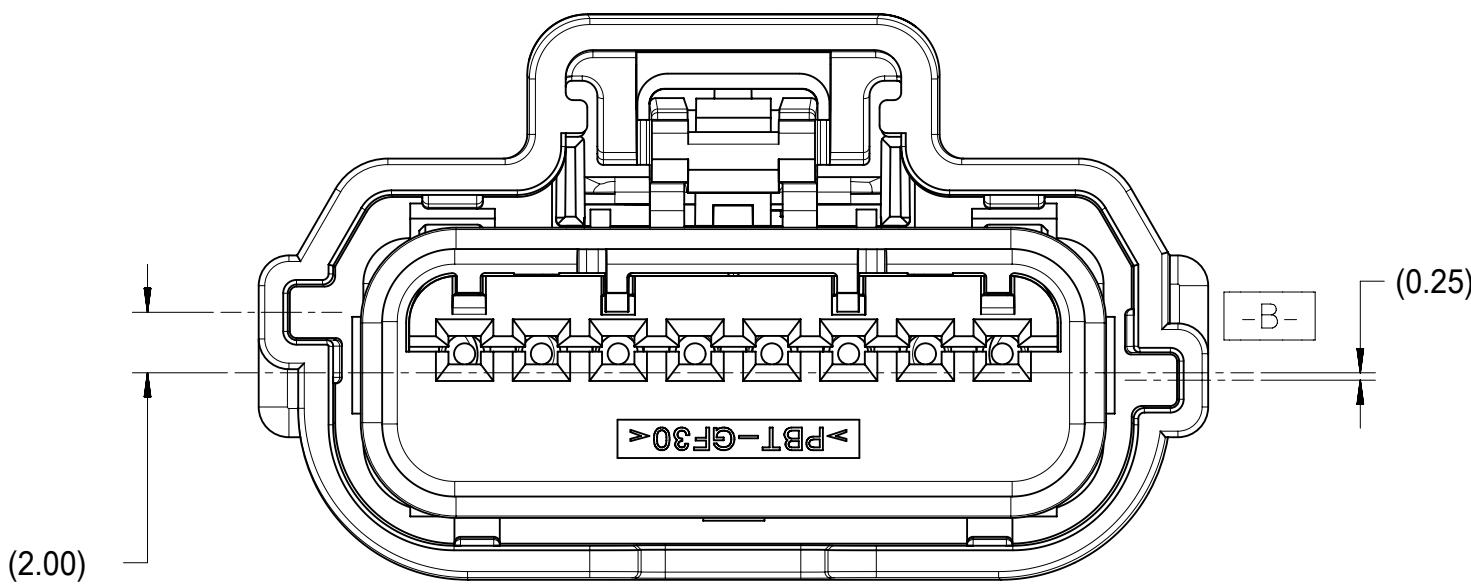
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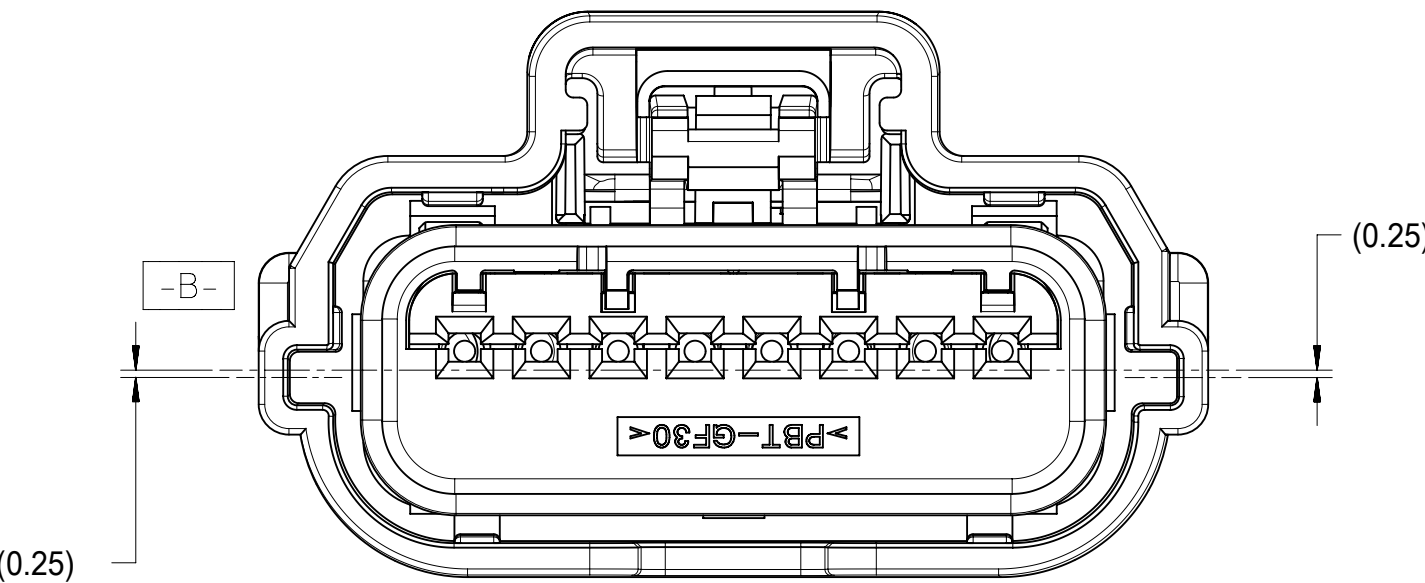
POLARIZATION A



POLARIZATION B



POLARIZATION C



POLARIZATION D

KEY CONFIGURATIONS

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:									
	= 0	mm		1:1		molex							
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)											
	= 0	ANGULAR TOL ± 3.0 °				0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY							
	= 0	4 PLACES		±									
	= 0	3 PLACES		±		PRODUCT CUSTOMER DRAWING							
	= 0	2 PLACES		± 0.13									
	= 0	1 PLACE		± 0.3		DOCUMENT NUMBER SD-31402-211 DOC TYPE PSD DOC PART 001 REVISION U							
	= 0	0 PLACES		±									
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				INITIAL REVISION: DRWN: RCARLSON 2004/03/01 APPR: PBERG 2004/09/30							
	= 0	THIRD ANGLE PROJECTION											
				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				D-SIZE		31402				GENERAL MARKET		5 OF 9	

[illegible]

