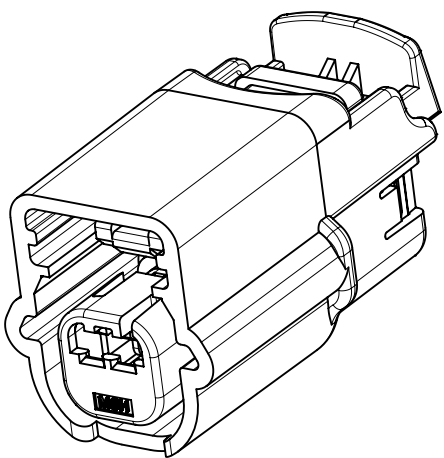
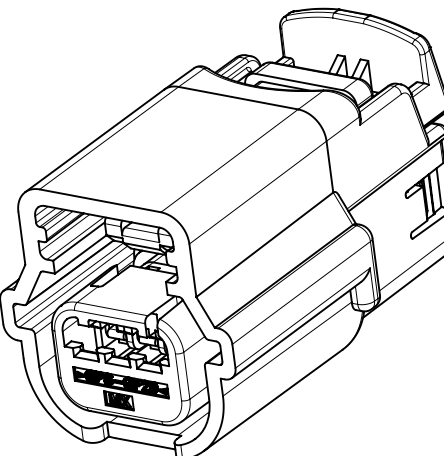
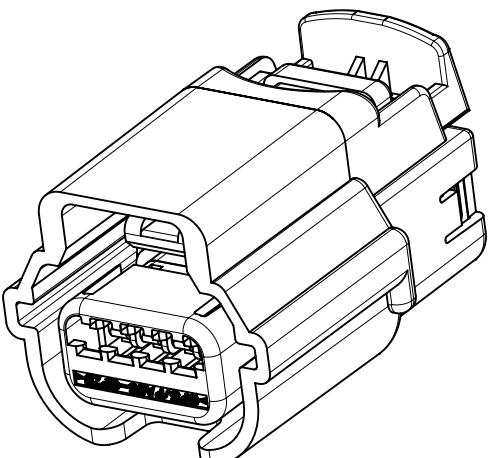




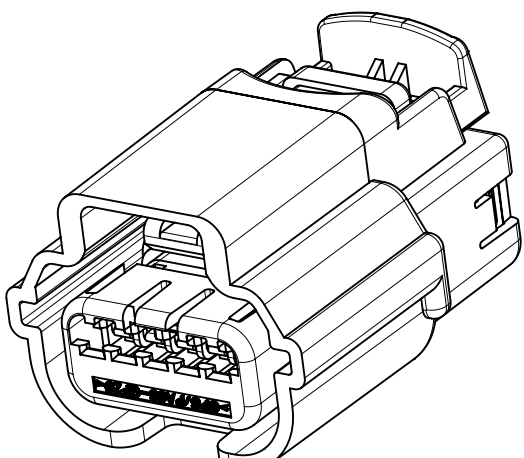
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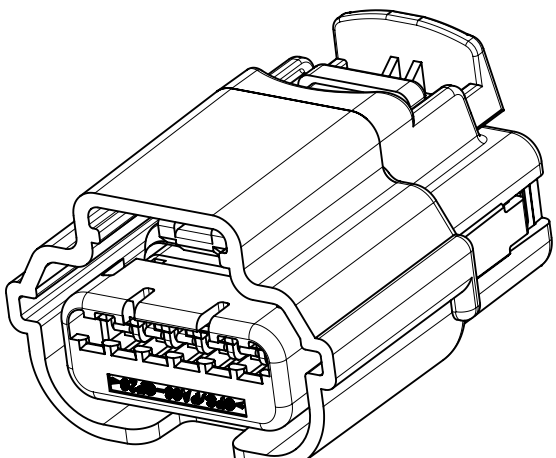
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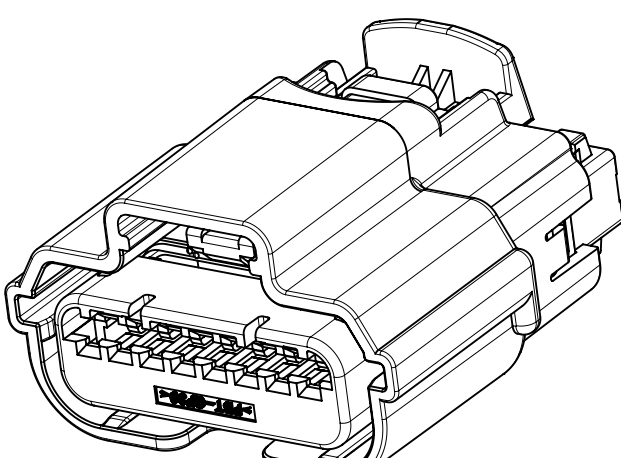
1X4



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

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

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 RADIUS 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 FIFTH DIGIT DAY # OF THE CALENDAR YEAR (EXAMPLE: FEB. 3RD = '034').

PART NUMBER LEGEND

CONNECTOR ASSEMBLY

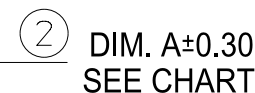
3140X-XXXX

- SEAL PLUG CONFIGURATION (AS MOLDED)
- 0 - ALL CIRCUITS OPEN
 - 1-9 SEE CHART
- CPA OPTION
- 0 OR 2 - WITHOUT CPA
 - 1 OR 3 - WITH CPA
 - 4 - WITHOUT CPA, WITH CLIPSLOT
 - 5 - WITH CPA, WITH CLIPSLOT
- USCAR POLARIZATION OPTION
- 1 - POLARIZATION OPTION A
 - 2 - POLARIZATION OPTION B
 - 3 - POLARIZATION OPTION C
 - 4 - POLARIZATION OPTION D
 - 5 - POLARIZATION OPTION B, BLACK
 - 6 - POLARIZATION OPTION C, BLACK
 - 7 - POLARIZATION OPTION D, BLACK
 - 8 - POLARIZATION OPTION C, NATURAL
 - 9 - POLARIZATION OPTION D, GRAY
 - 0 - POLARIZATION OPTION D, DARK GRAY
- CIRCUIT SIZE 2, 3, 4, 5, 6 & 8
- 6 - CIRCUIT SIZE 6, WITH 31412-6500 OR 31412-6501 RING SEAL (FOR 31402 AND 31403 SERIES)
WITH 31412-6500 RING SEAL (FOR 31404 SERIES)
 - 7 - CIRCUIT SIZE 6, WITH 31412-6501 RING SEAL (FOR 31404 SERIES)
- TERMINAL OPTION
- 2 - TYCO/MOLEX GET 0.64
 - 3 - MOLEX 0.64
 - 4 - YAZAKI KAIZEN 0.64/TE GEN Y 0.64/JST AIT 0.64

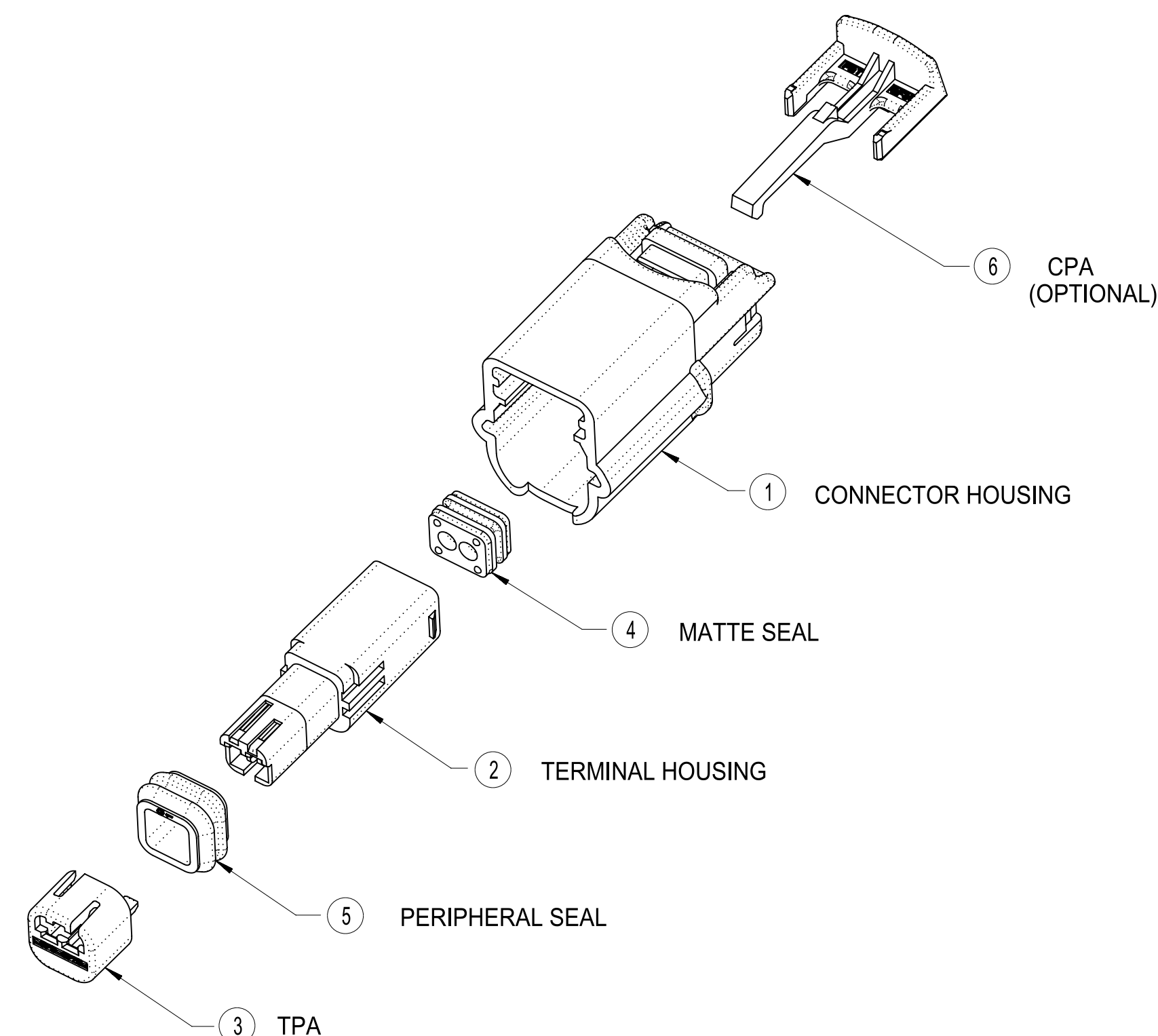
U8	ADD P/N: 31403-3102 & 31403-3112
U7	ADD P/N: 31402-6134 to 31402-6124
U6	ADD P/N: 31402-6001 to 31402-6006 31403-6001 to 31403-6006 31404-6001 to 31404-6012
U5	ADD P/N: 31402-6122/6123/6123/6133, 31403-6105/6115/6502/6512
U4	DELETE P/N 31402-2120/2130
U3	DELETE OBSOLETE P/Ns (31404-6XXX) DELETE P/N 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
T3	UPDATE BOM INFORMATION ON SHEET 9
T2	DELETE 31402/31403-7*** P/N
T	ADD P/N 3140*-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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
FUNCTIONAL SYMBOLS = 0 = 0 = 0 DIVISIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: MX64 - 1x3 CVP PNs added					molex 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY				
		MM		1:1											
		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000021437 DRWN: Mario Gazca 07-Oct-2024 CHK'D: MAURICIO RUIZ 27-Feb-2025 APPR: Brittney Cotter 12-Mar-2025									
		ANGULAR TOL ± 3 °													
4 PLACES ± 0															
3 PLACES ± 0		INITIAL REVISION: DRWN: RFC_PLMIMP 01-Mar-2004 APPR: PBERG 30-Sep-2004					DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION		
2 PLACES ± 0.13							SD-31402-211		PSD		001		U8		
1 PLACE ± 0.3															
0 PLACES ± 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		31402				GENERAL MARKET		1 OF 8	

DOCUMENT STATUS	Production	RELEASE DATE	12-Mar-2025	02:34:41
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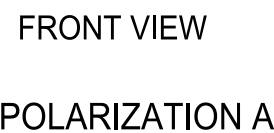
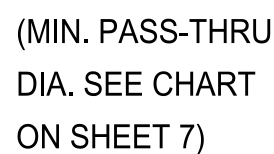
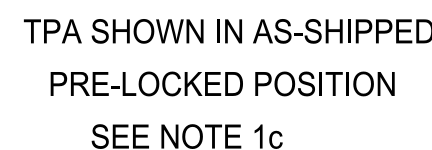
RIGHT SIDE VIEW



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: MX64 - 1x3 CVP PNs added				molex 0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY							
	MM		1:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)															
	ANGULAR TOL		± 3°		EC NO: CO-000021437 DRWN: Mario Gazca 07-Oct-2024 CHK'D: MAURICIO RUIZ 27-Feb-2025 APPR: Brittney Cotter 12-Mar-2025				PRODUCT CUSTOMER DRAWING							
	4 PLACES		± 0													
	3 PLACES		± 0													
	2 PLACES		± 0.13													
	1 PLACE		± 0.3													
	DIVISIONAL SYMBOLS	0 PLACES		± 0		INITIAL REVISION: DRWN: RFC_PLMIMP 01-Mar-2004 APPR: PBERG 30-Sep-2004				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION
				SD-31402-211						PSD		001		U8		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
						D-SIZE		31402				GENERAL MARKET		2 OF 8		

DOCUMENT STATUS	Production	RELEASE DATE	12-Mar-2025	02:34:41
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0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY

PRODUCT CUSTOMER DRAWING

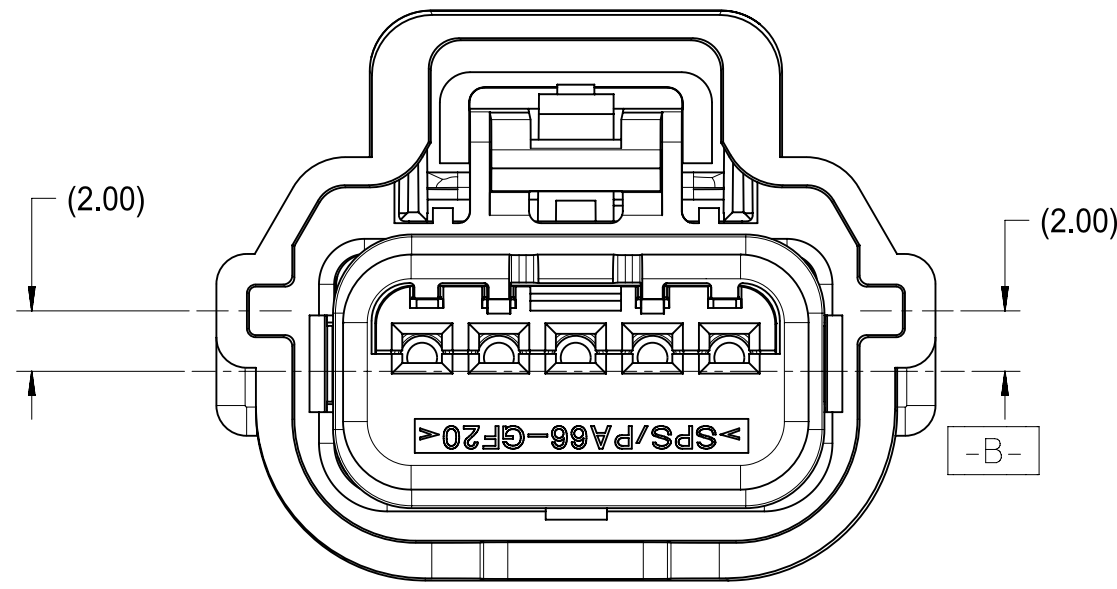
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SD-31402-211	PSD	001	U8

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	3 OF 8

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
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	MM		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
	ANGULAR TOL ± 3°														
	4 PLACES ± 0		2 PLACES ± 0.13										EC NO: CO-000021437		
DIVISIONAL SYMBOLS	3 PLACES ± 0		1 PLACE ± 0.3		DRWN: Mario Gazca 07-Oct-2024				PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-31402-211 DOC TYPE PSD DOC PART 001 REVISION U8						
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	1 PLACE ± 0.3		0 PLACES ± 0		APPR: Brittney Cotter 12-Mar-2025										
	INITIAL REVISION:				DOCUMENT NUMBER										
	0 PLACES ± 0		1 PLACE ± 0.3		DRWN: RFC_PLMIMP 01-Mar-2004										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		31402				GENERAL MARKET		3 OF 8	

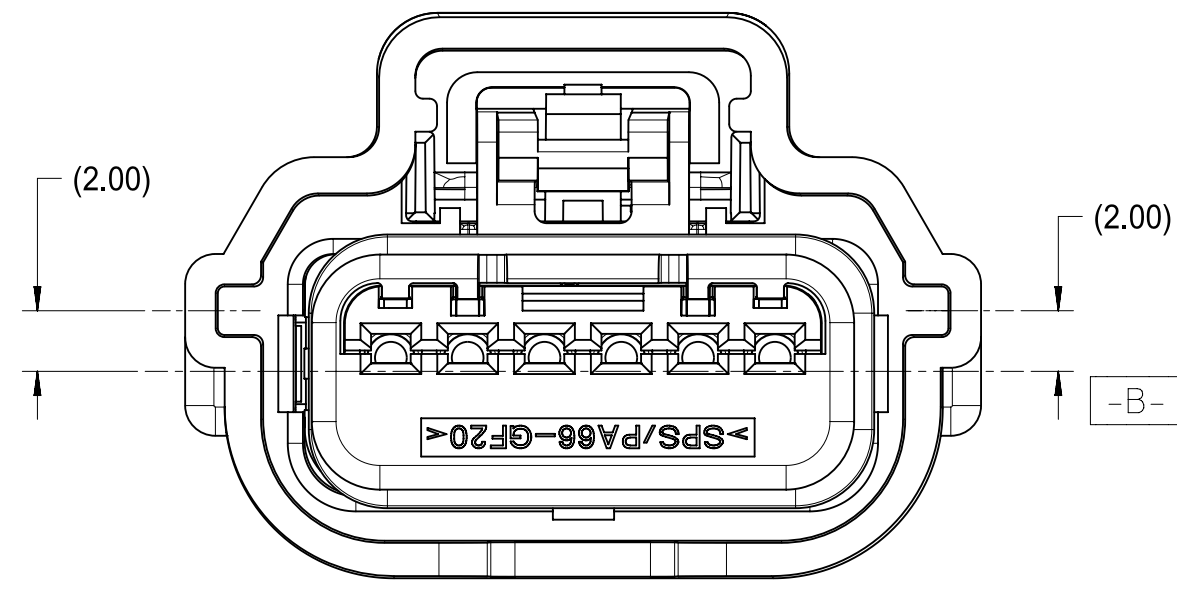
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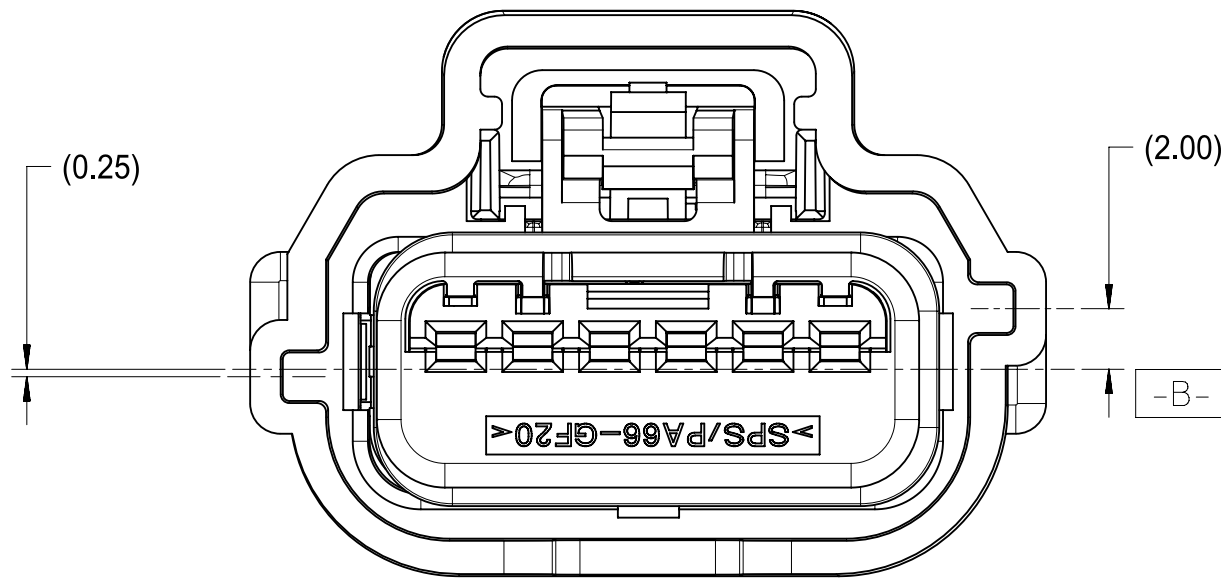


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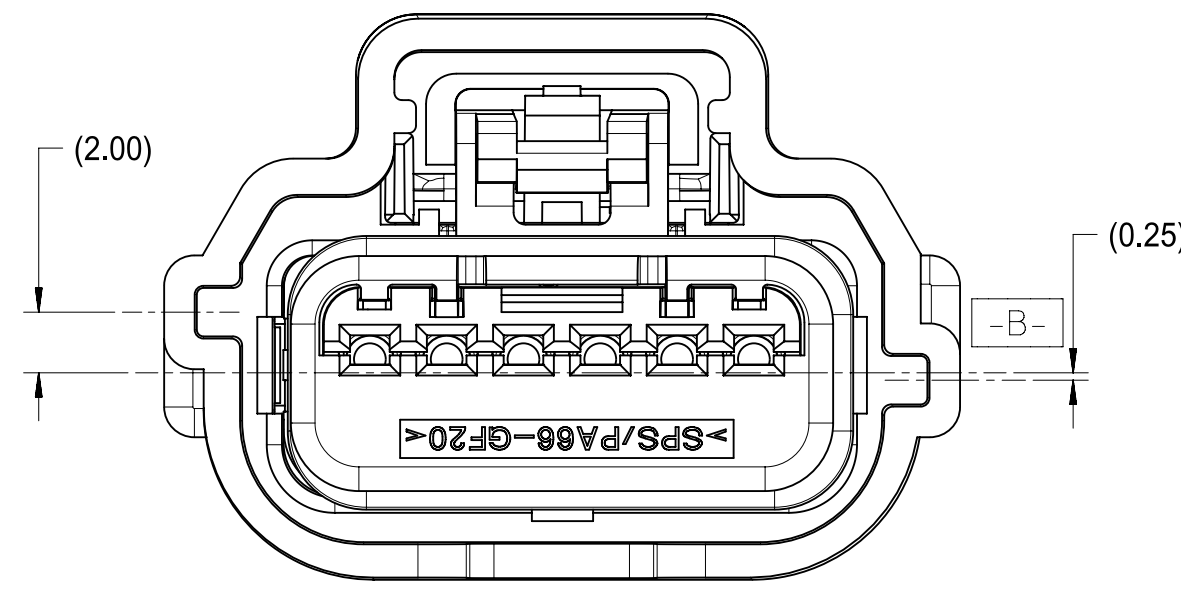
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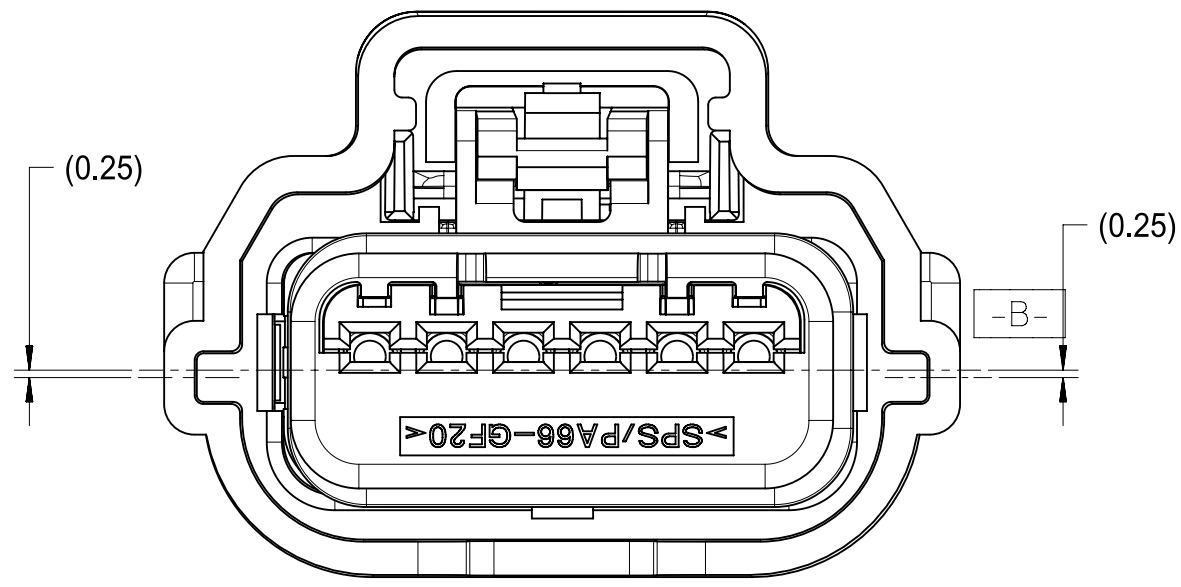
POLARIZATION A



POLARIZATION B

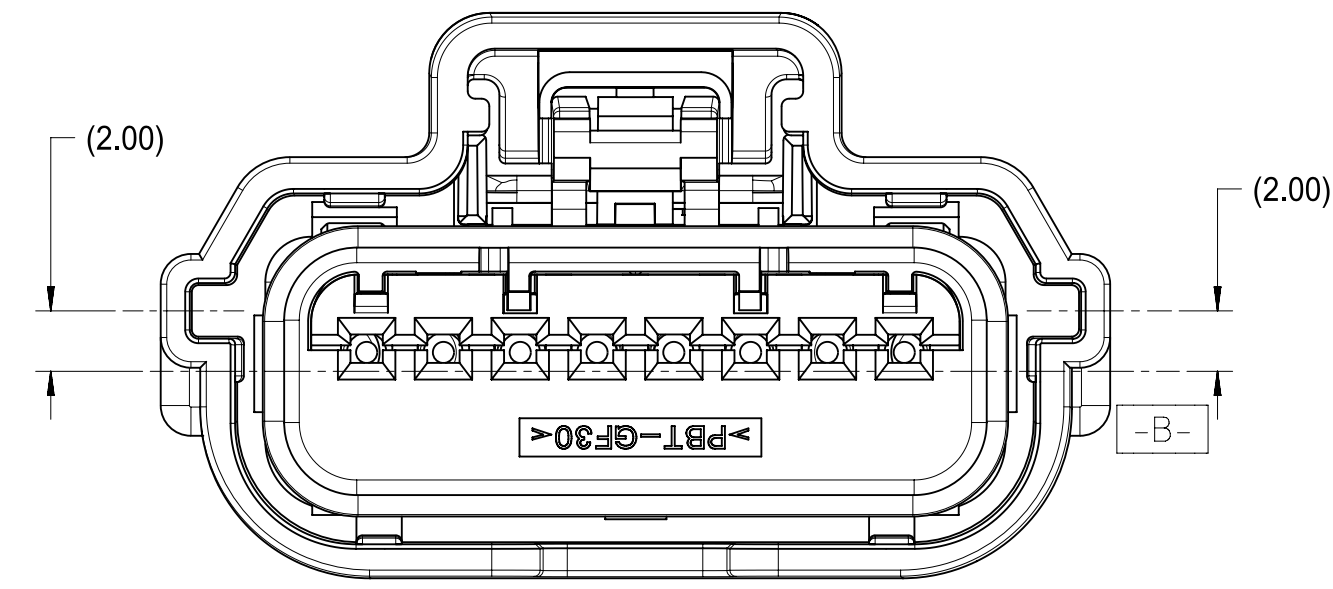


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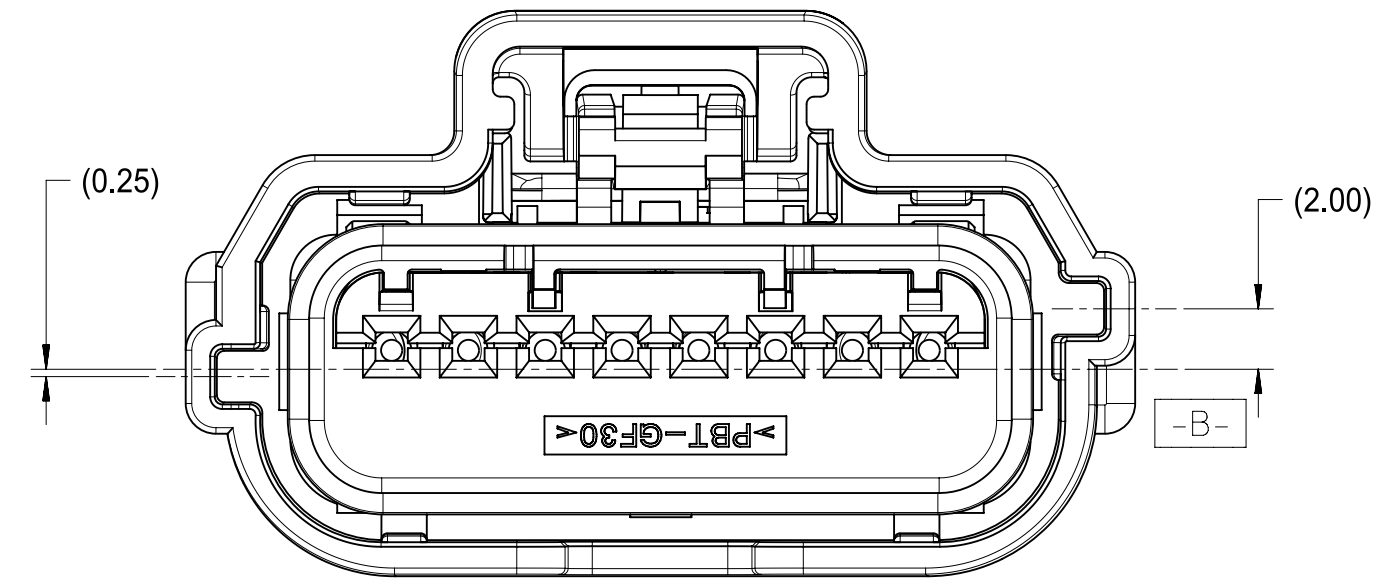


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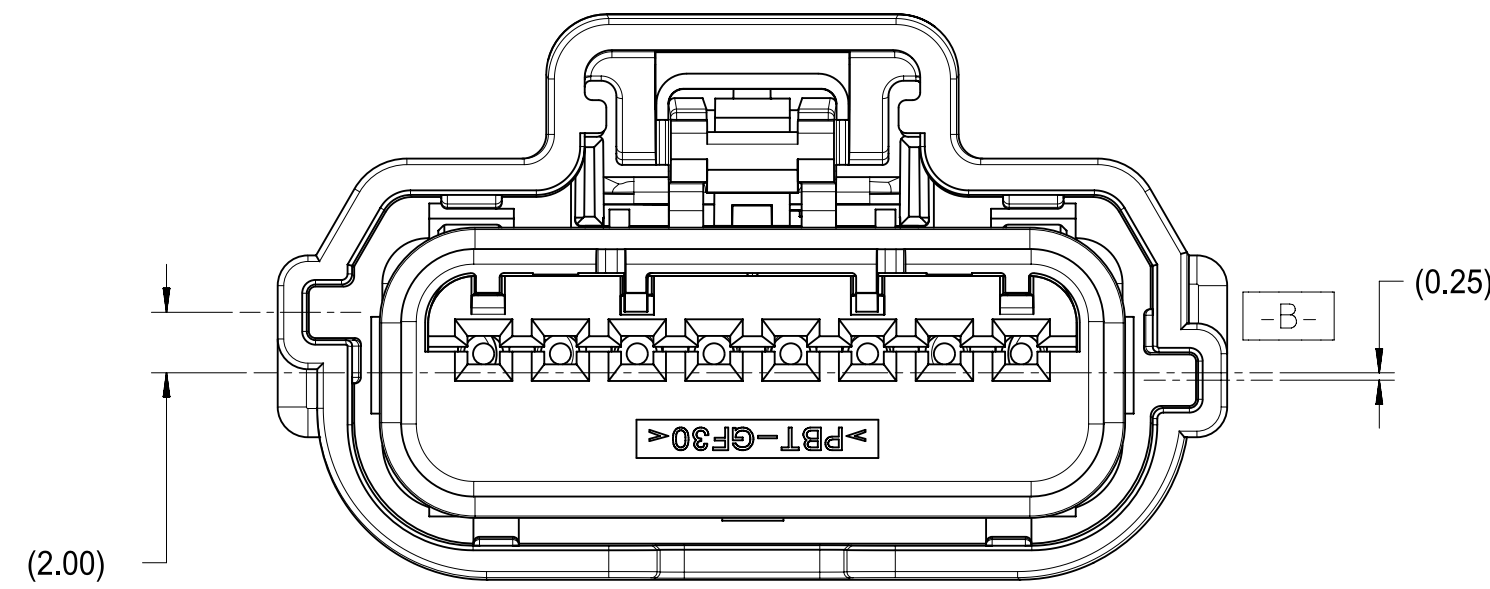
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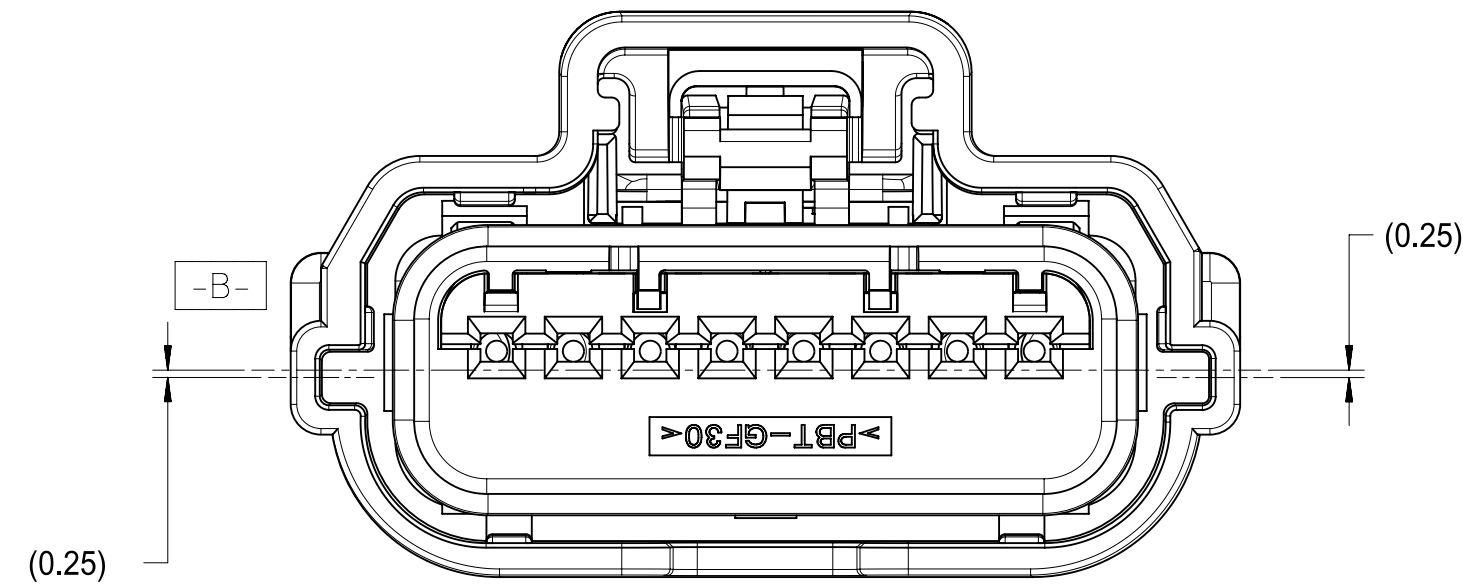
POLARIZATION A



POLARIZATION B



POLARIZATION C



POLARIZATION D

KEY CONFIGURATIONS

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F A = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: MX64 - 1x3 CVP PNs added EC NO: CO-000021437 DRWN: Mario Gazca07-Oct-2024 CHK'D: MAURICIO RUIZ27-Feb-2025 APPR: Brittney Cotter12-Mar-2025 INITIAL REVISION: DRWN: RFC_PLMIMP01-Mar-2004 APPR: PBERG30-Sep-2004					molex								
F E = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)									0.64 USCAR CONNECTOR SEALED SINGLE ROW ASSEMBLY								
F P = 0		ANGULAR TOL ± 3°																	
4 PLACES		±		0															
3 PLACES		±		0															
2 PLACES		±		0.13		PRODUCT CUSTOMER DRAWING													
1 PLACE		±		0.3															
0 PLACES		±		0															
DIVISIONAL SYMBOLS		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		U8	
												MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
														GENERAL MARKET				5 OF 8	

[illegible]

