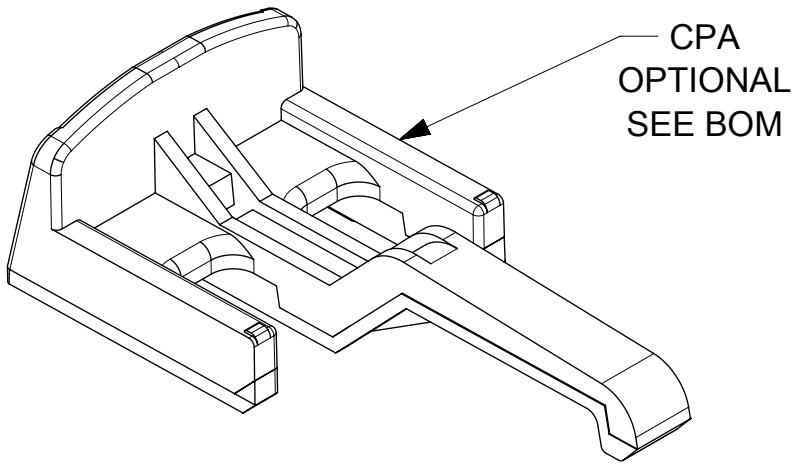
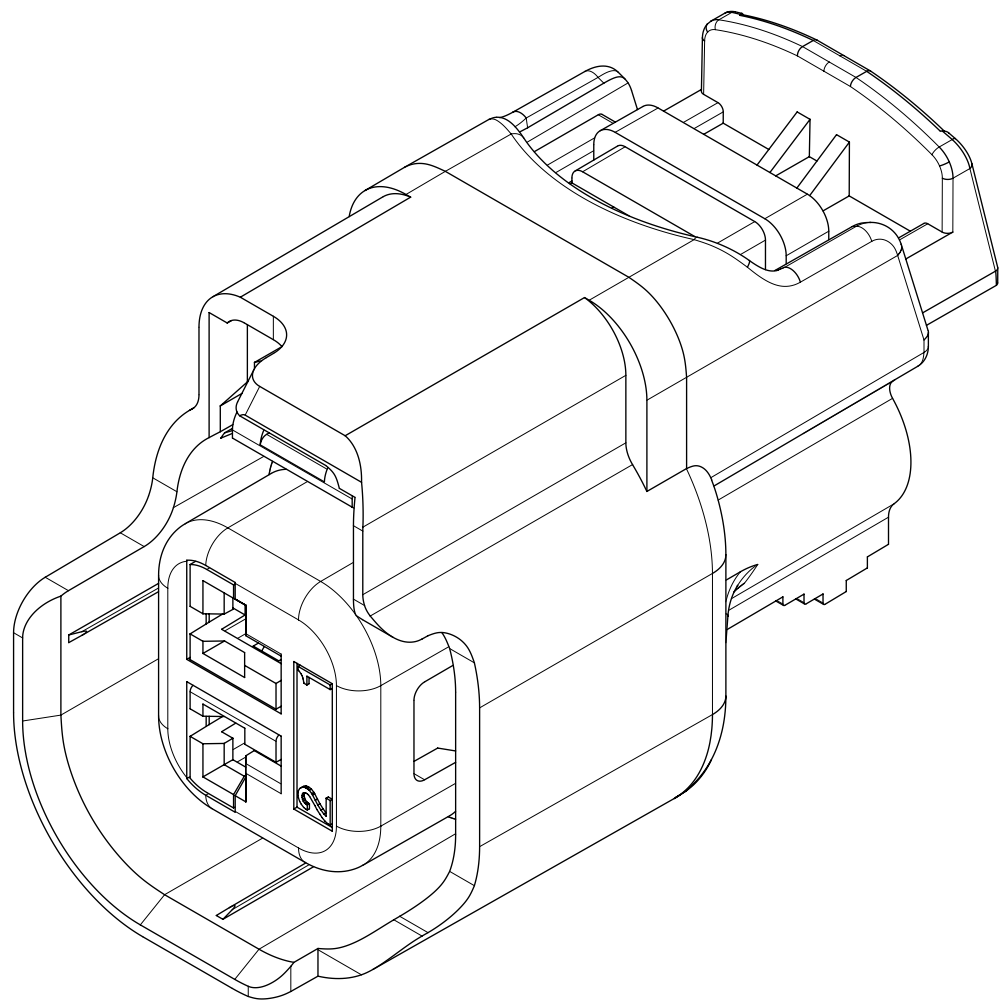
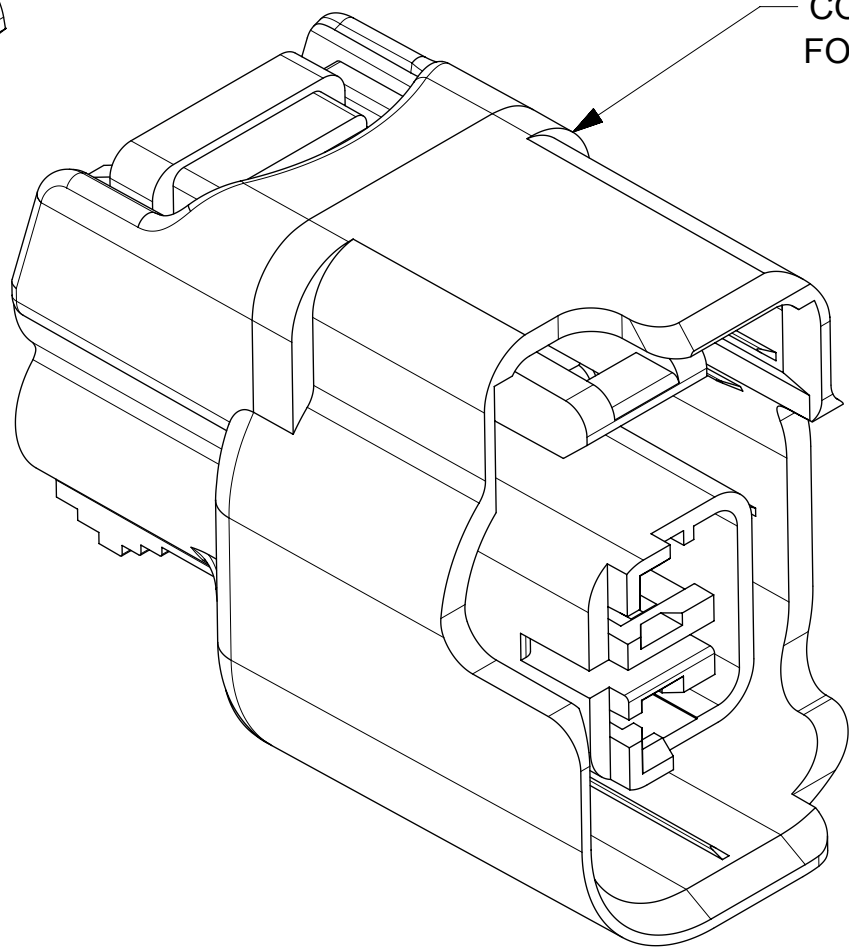
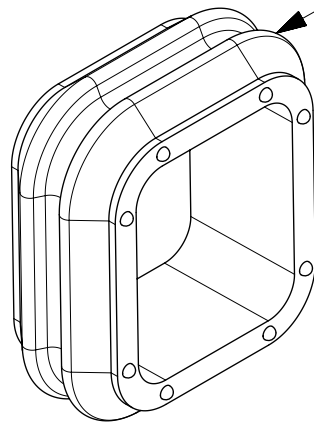




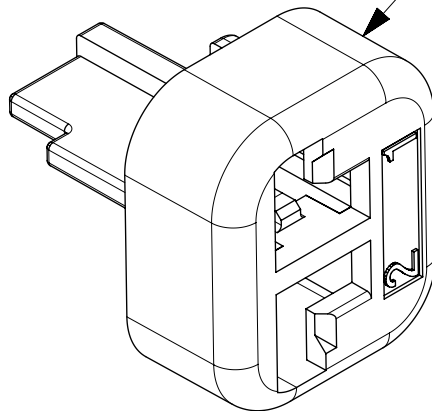
CPA
OPTIONAL
SEE BOM



CONNECTOR HOUSING
FOR OPTIONS SEE BOM



RING SEAL
FOR OPTIONS
SEE BOM



TPA

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2, 3	CONFIGURATIONS
4	RECEPTACLE CONNECTOR ASSEMBLY
5	MOLEX INTERFACE

NOTES: VALID UNLESS OTHERWISE SPECIFIED

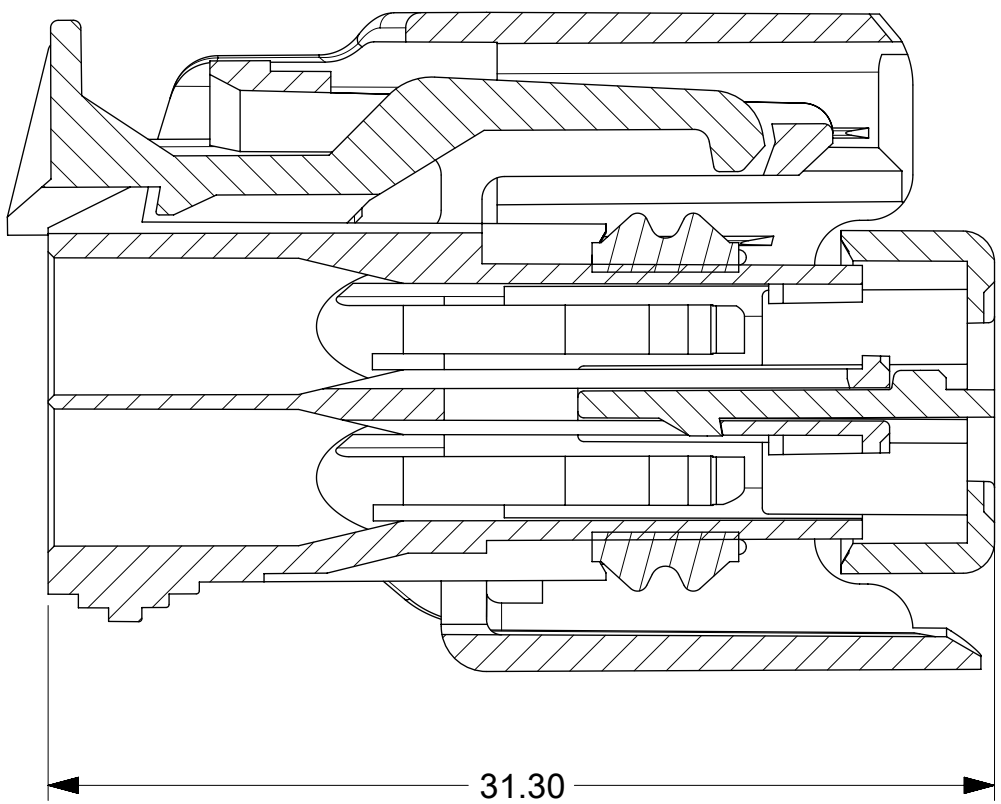
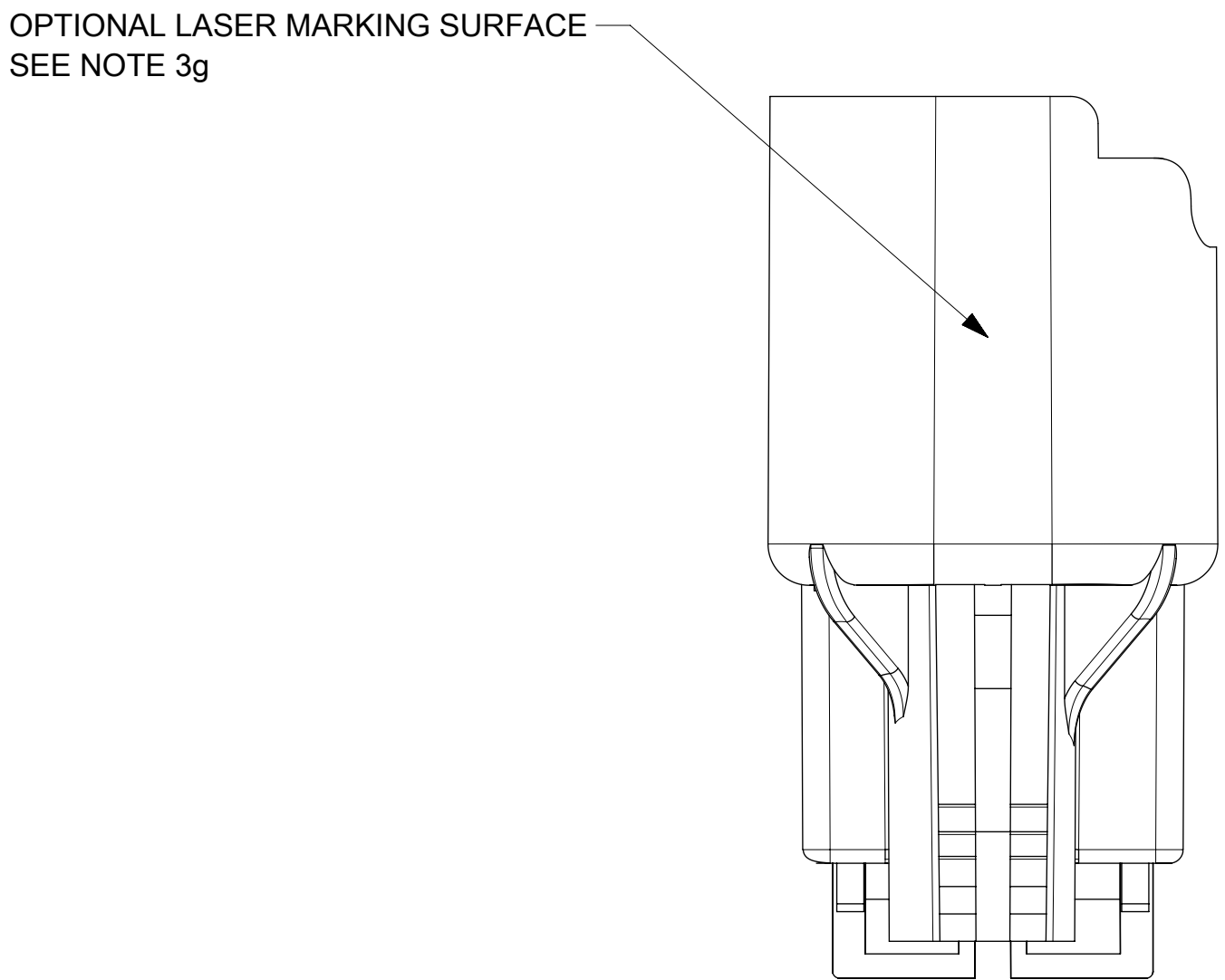
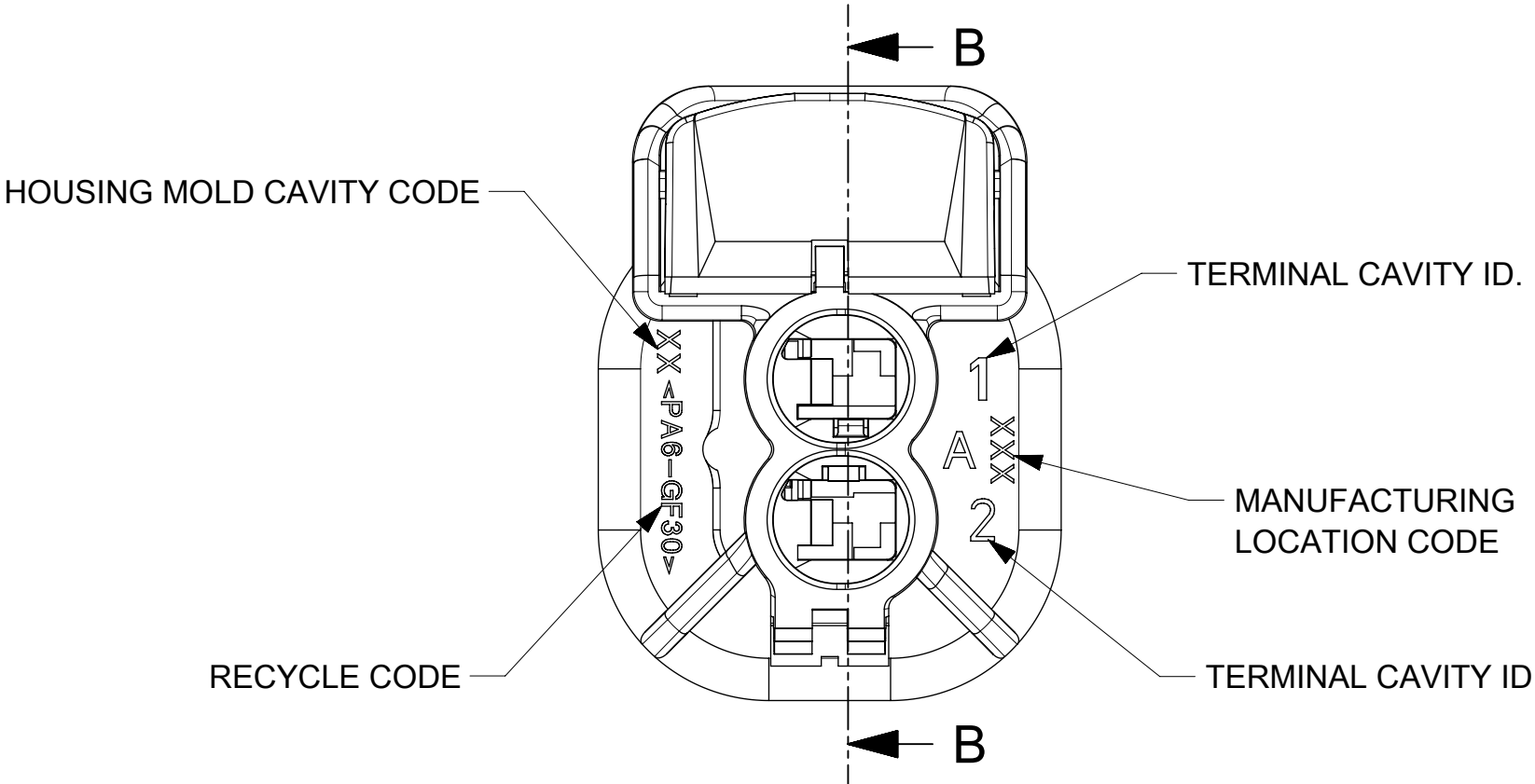
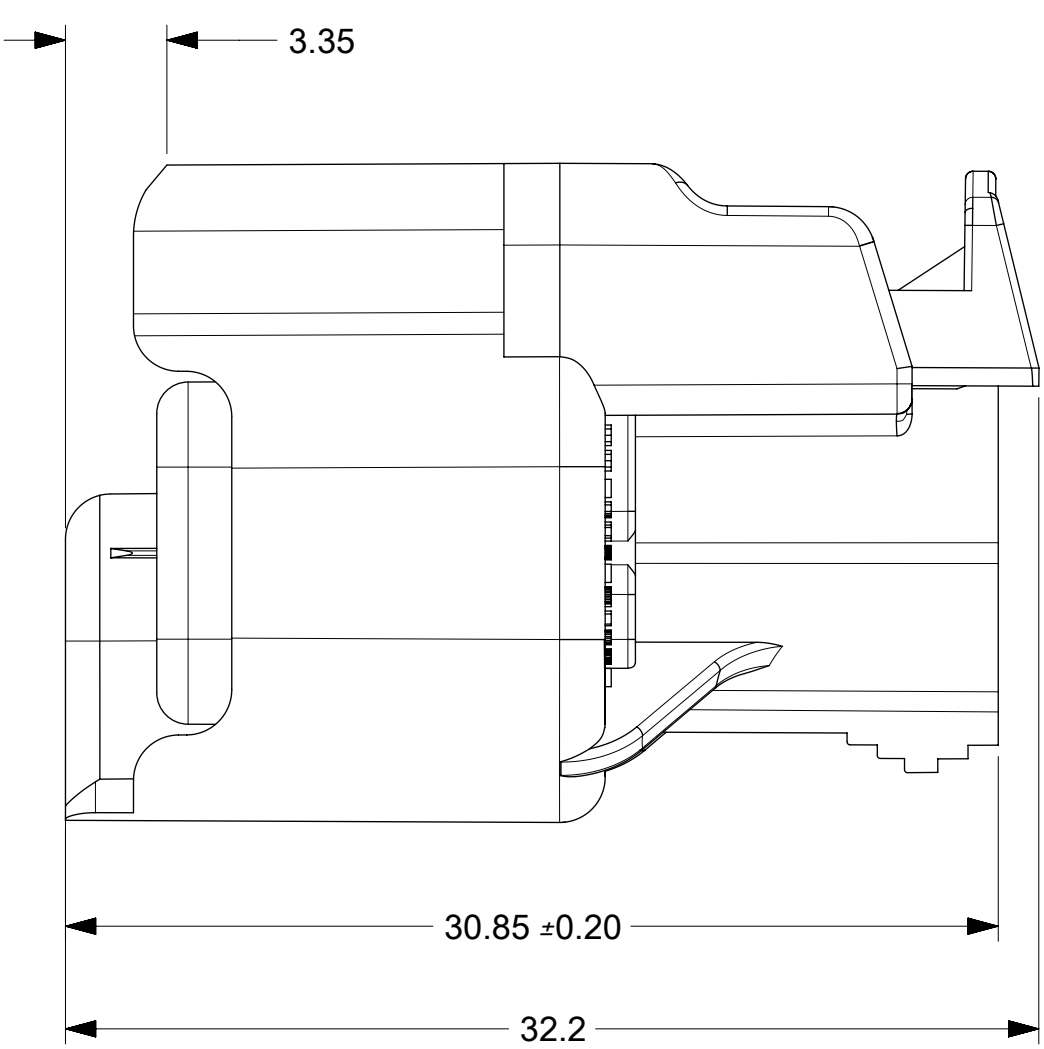
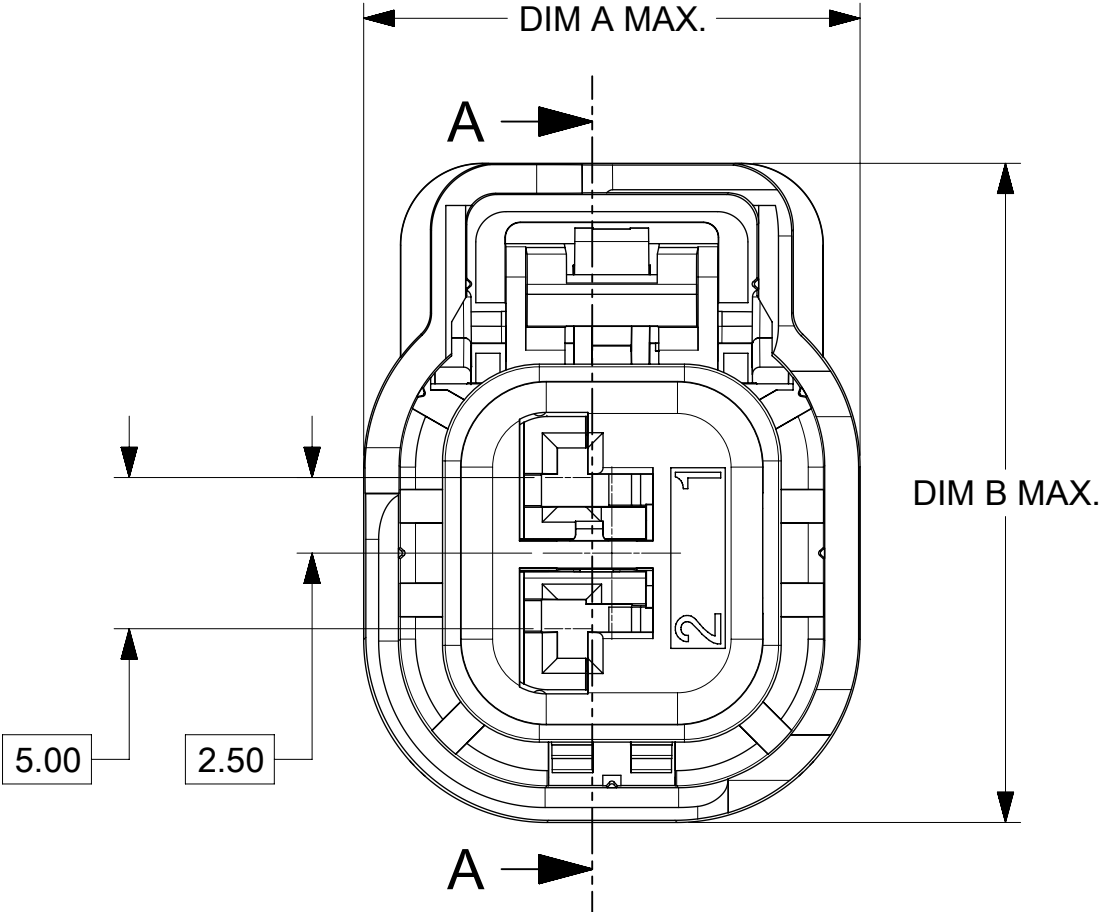
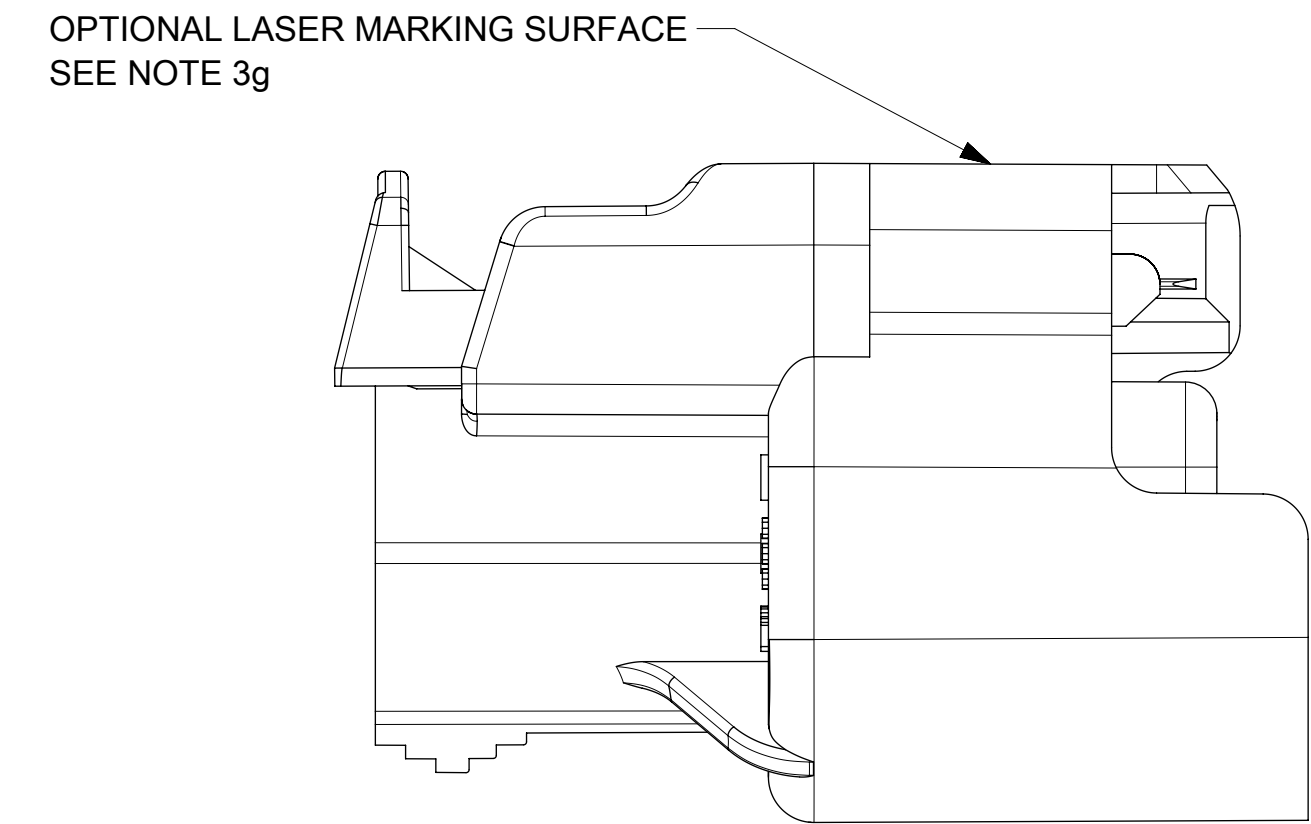
- GENERAL:
 - APPLICATION SPECIFICATION SEE: AS-34062-000
-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
-DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING EWCAP 150-S-002-1-Z01. AVAILIBLE AT <http://ewcap.uscarteams.org/>.
-DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING: SD-34675-001
-ASSEMBLY SHIPPED WITH TPA IN PRE-LOCK (SEE TPA PRE-LOCK VIEW IN SHEET 4)
 - PRODUCT SPECIFICATION SEE: PS-34062-000
CONTAINS: SCOPE, PRODUCT DESCRIPTION, INTEGRAL COMPONENTS AND ACCESSORIES, APPLICABLE DOCUMENTS AND SPECIFICATIONS, RATINGS, PERFORMANCE, PACKAGING, GAUGE AND FIXTURES, AND OTHER INFORMATION.
 - PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-30907-879
 - PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
 - DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- DESIGN - MATERIALS:
 - SEE BOM TABLE IN SD-34062-004
- DESIGN - GEOMETRY:
 - THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
 - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
 - 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.
 - VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
 - LASER MARKING: TBD

INSPECTION BALLOON NUMBER LOG									
PER DRAWING REVISION: J18									
LAST BALLOON NUMBER USED: ICD 64									
ADDED BALLOON NUMBERS: ICD 64									
REMOVED BALLOON NUMBERS: ICD 7, ICD 8, ICD 9,ICD 18, ICD 19, ICD 20, ICD 41, ICD 42									

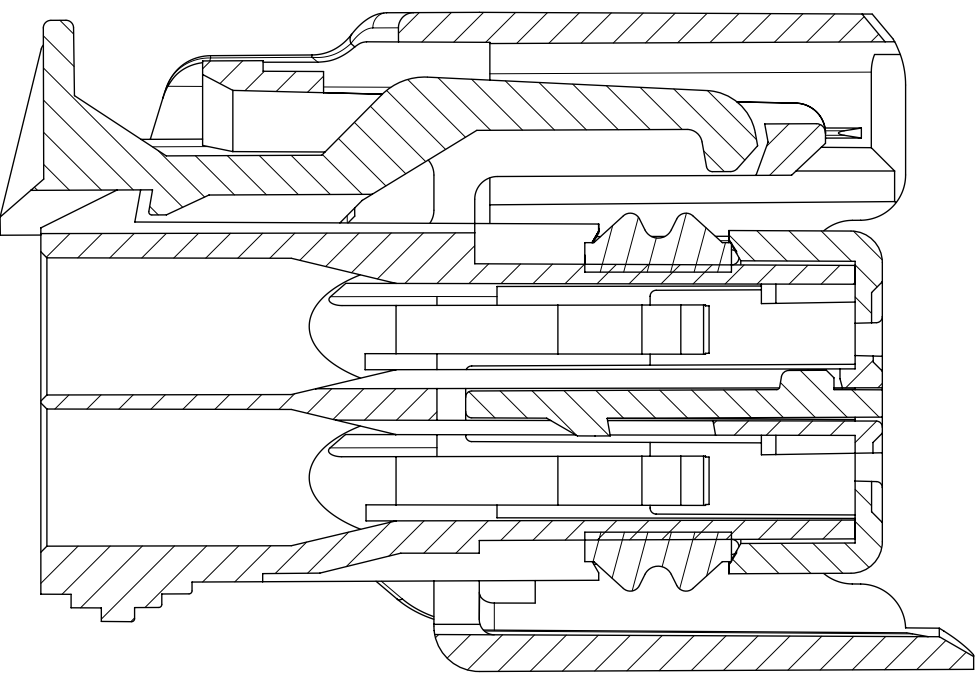
QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
	EC NO: 117955 DRWN: PKABBUR CHKD: KDEKOSKI REV: J19	2017/05/15 2017/06/14	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE								
				MM		4:1								
				DRWN BY		DATE								
				4 PLACES ±		KCUNNINGHAM		2011/11/08		MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)				
				3 PLACES ±		CHK'D BY		DATE						
				2 PLACES ± 0.1		MVANSLAMBROU		1/26/2012						
				1 PLACE ± 0.3		APPR BY		DATE		PRODUCT CUSTOMER DRAWING				
				0 PLACES ±		KDEKOSKI		2017/06/14						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER	
						D		34062	SEE NOTE 2a		GENERAL MARKET			
	DOCUMENT NUMBER	DOC TYPE	DOC PART			SHEET NUMBER								
							SD-34062-002	PSD	000	1 OF 5				

SHEET DESCRIPTION
RECEPTACLE CONNECTOR ASSEMBLY

CHARTED DIMENSIONS		
CONFIGURATIONS	DIMENSIONS	
	A	B
OPTIONS A, C, D	16.6	22.0
OPTION B	16.6	23.9
OPTION E	20.2	23.9
OPTION F	16.6	23.9
OPTION G	18.4	22.0
OPTIONS A, C, D W/CLIP-SLOT	19.2	22.0
OPTION B W/CLIP-SLOT	19.2	23.9

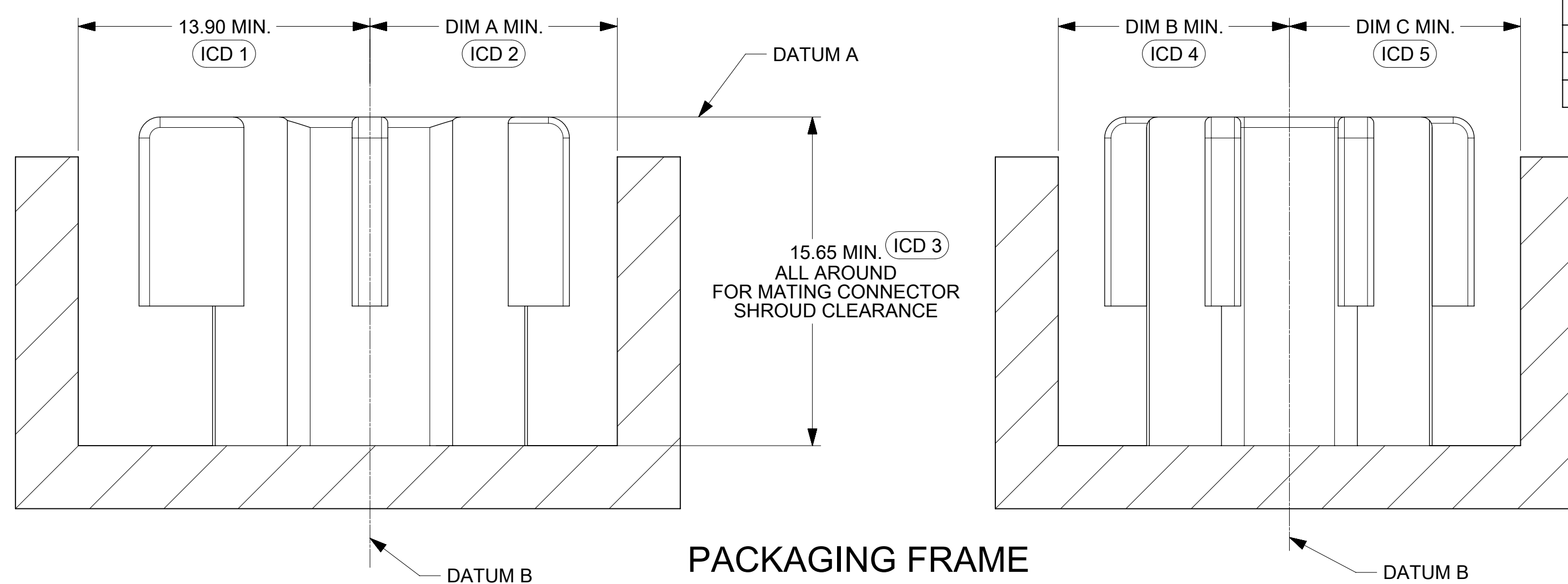
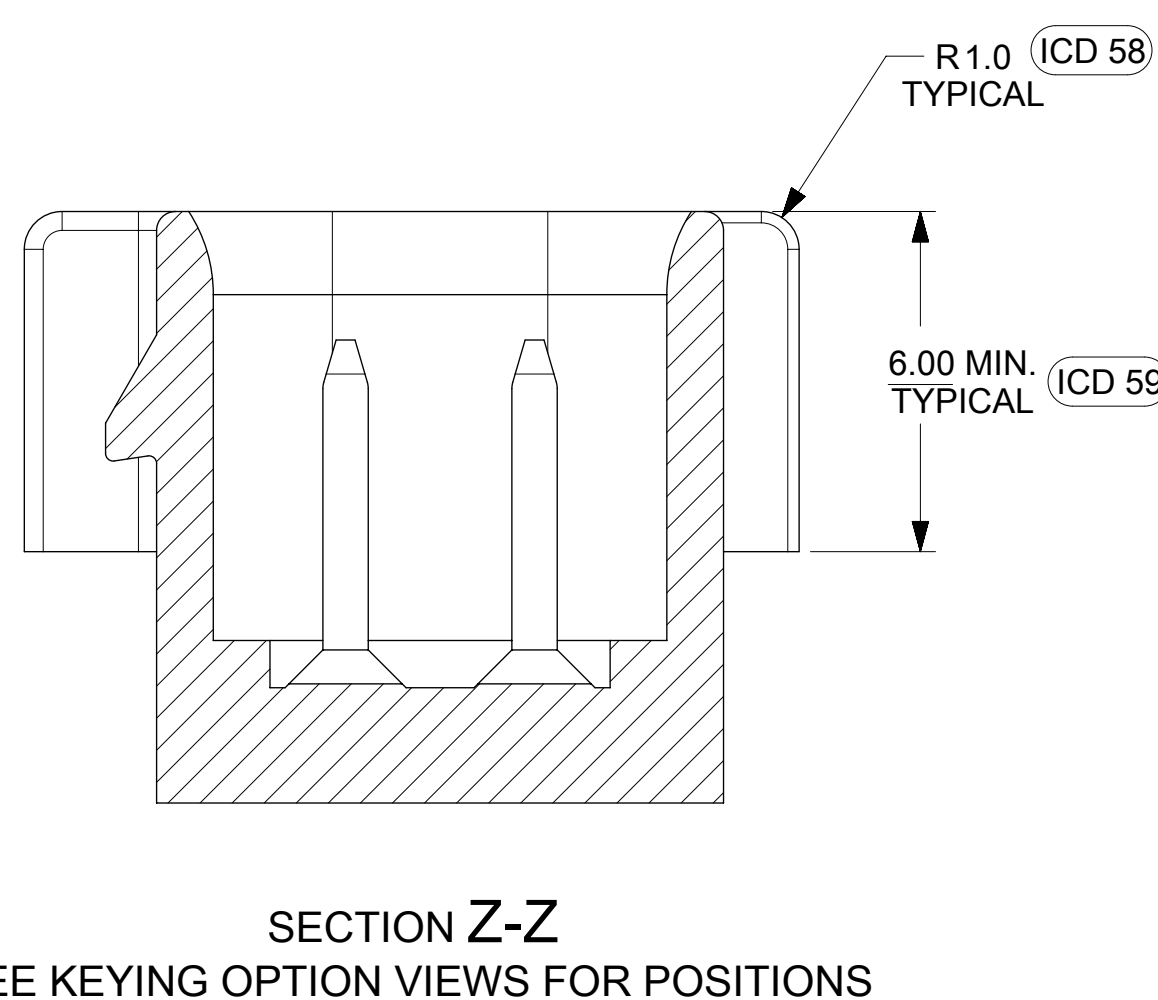
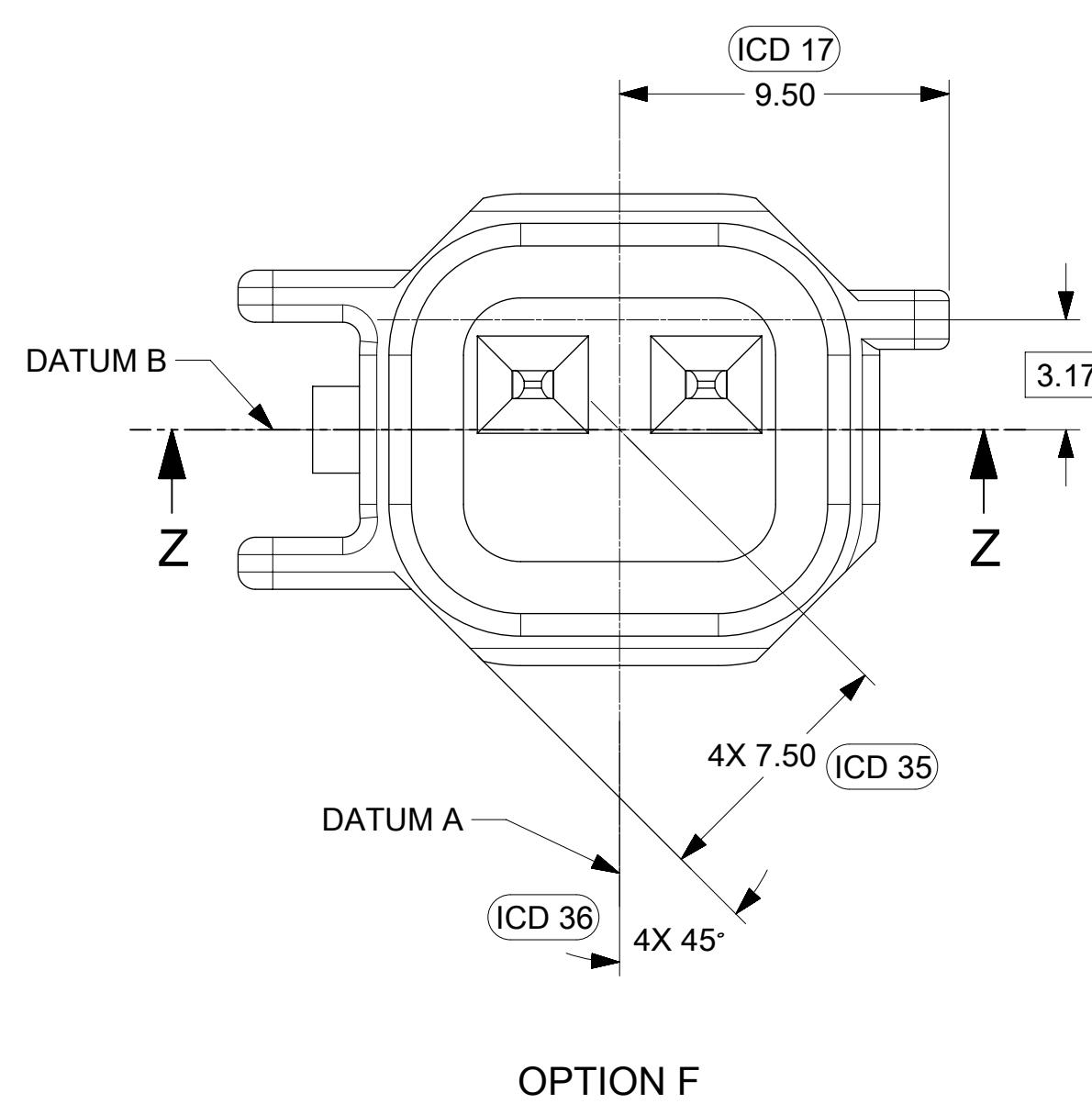
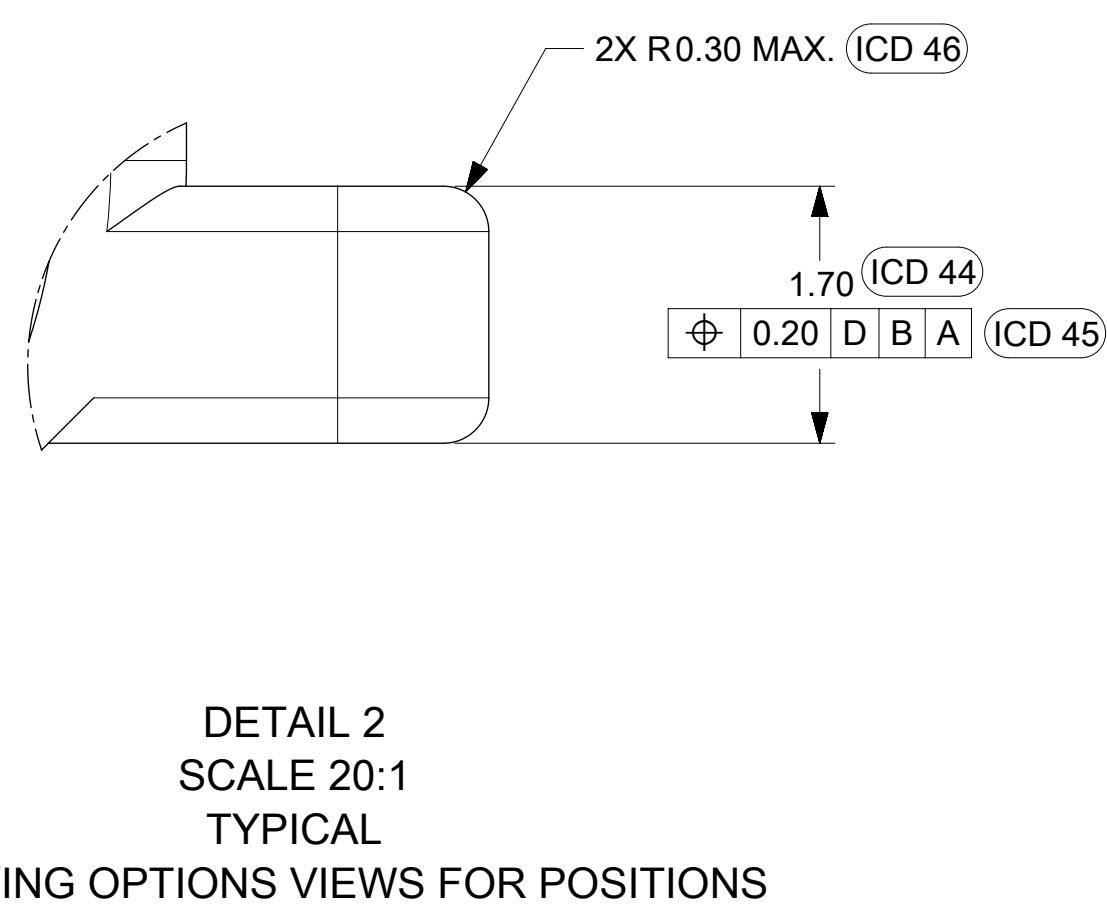
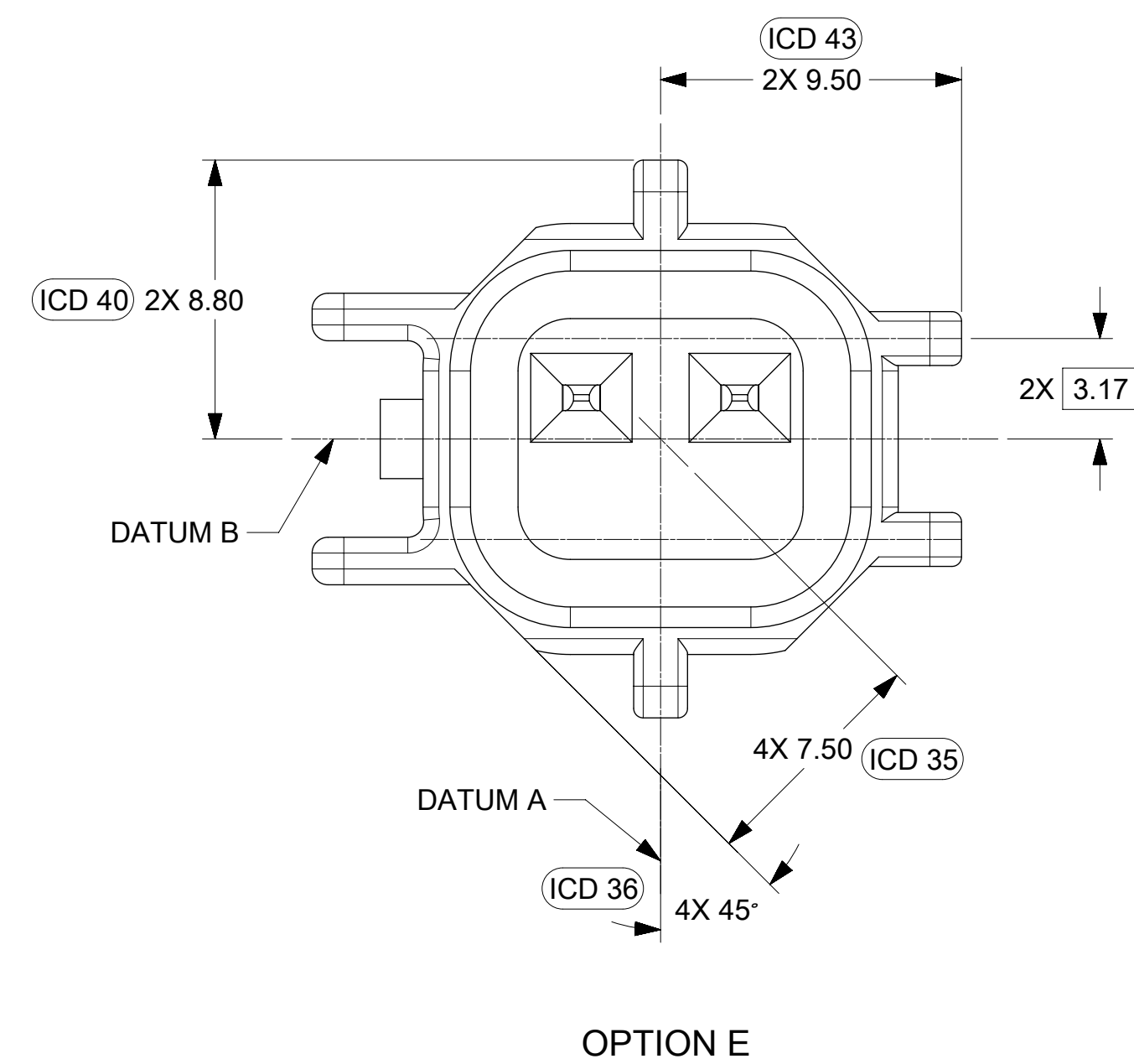
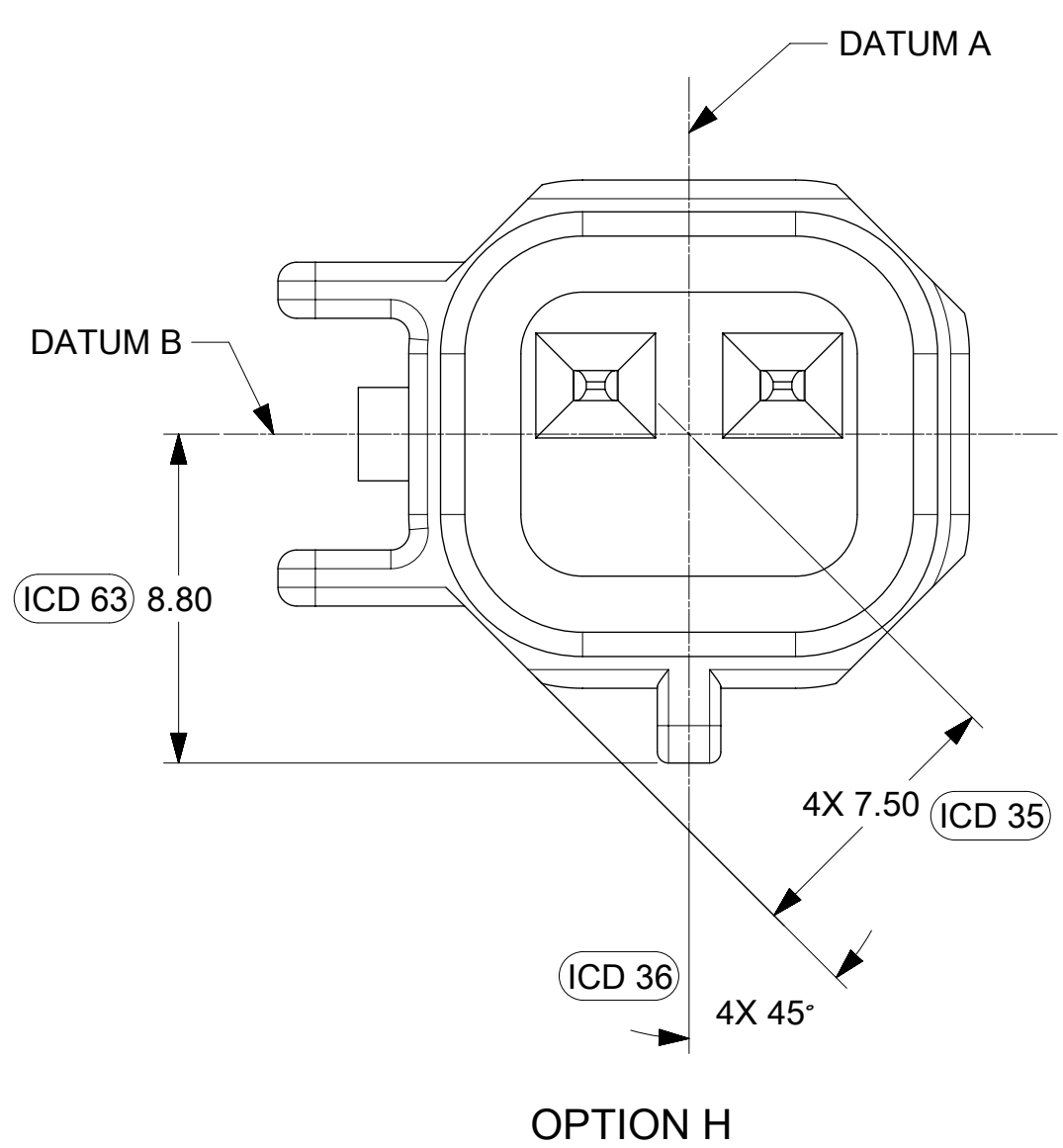
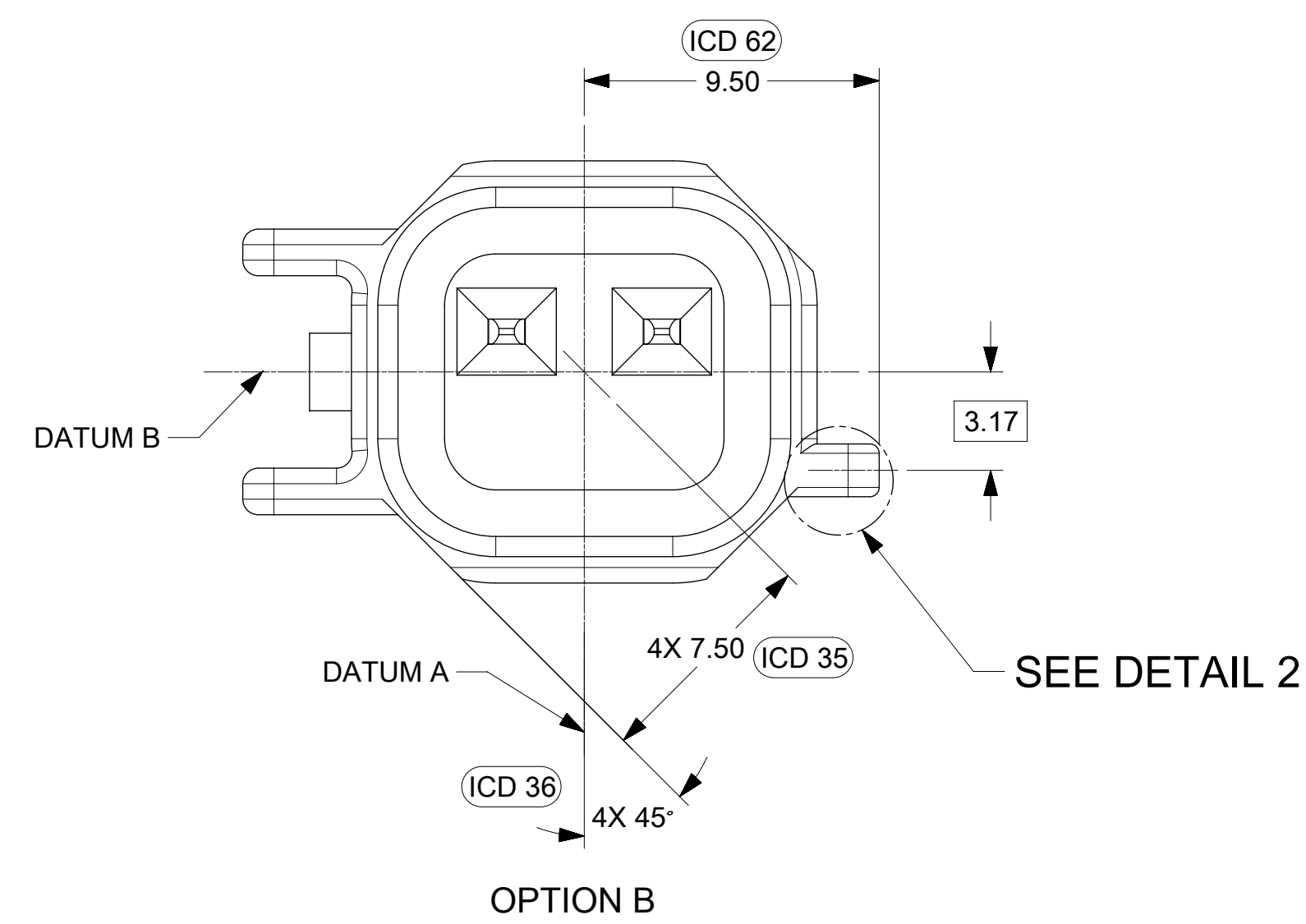
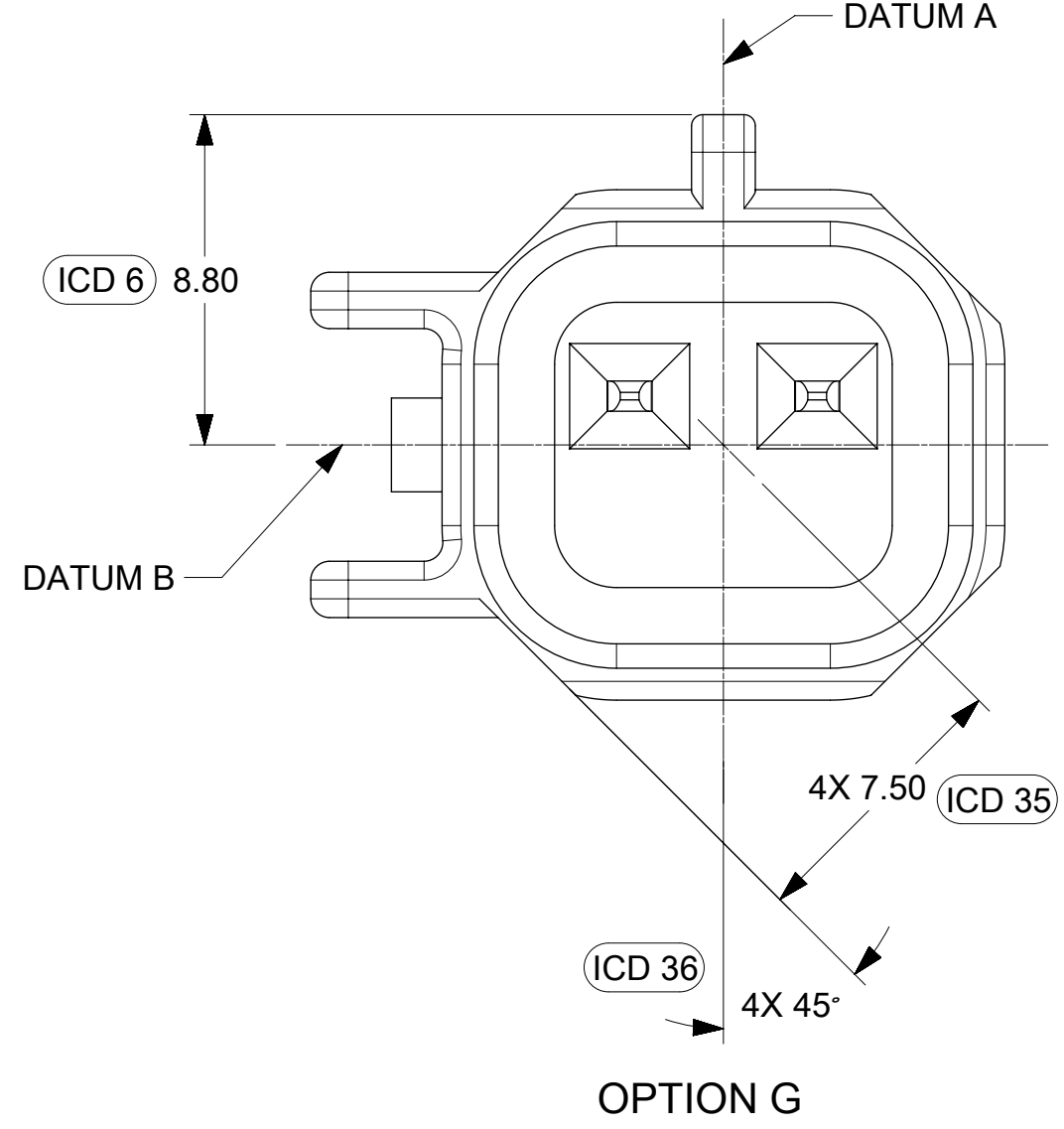
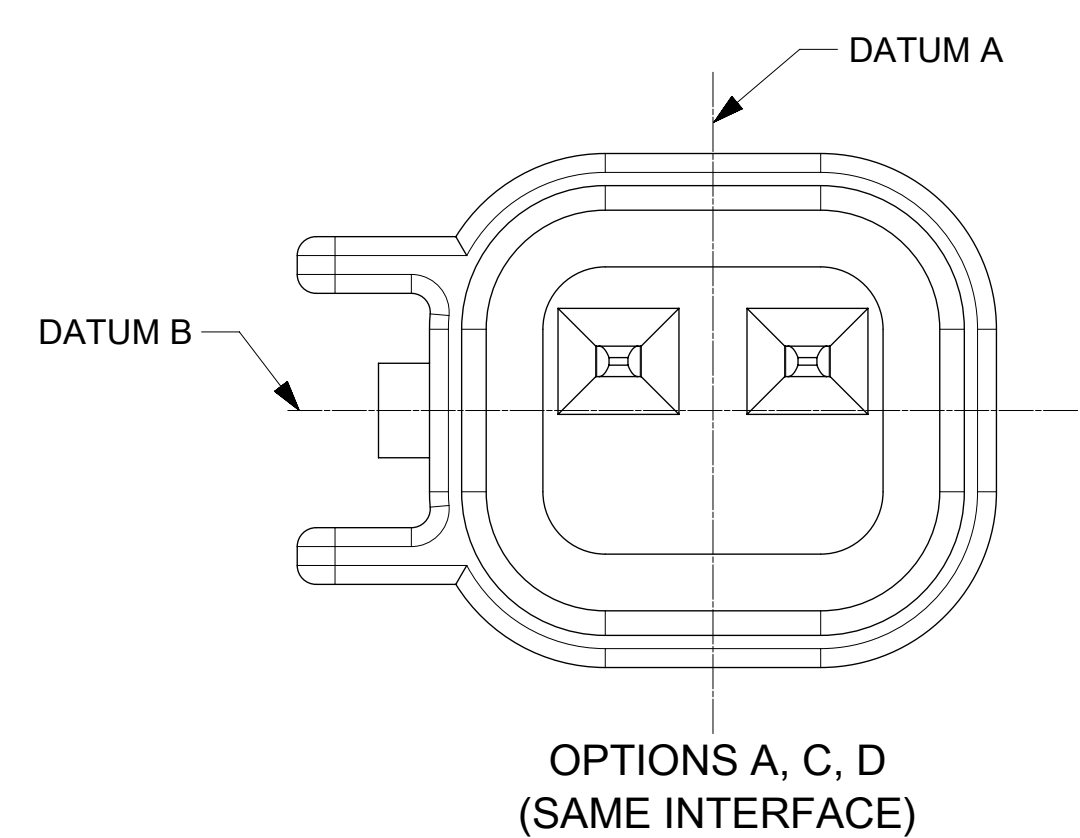


SECTION A-A
TPA SHOWN IN THE
PRE-STAGED POSITION

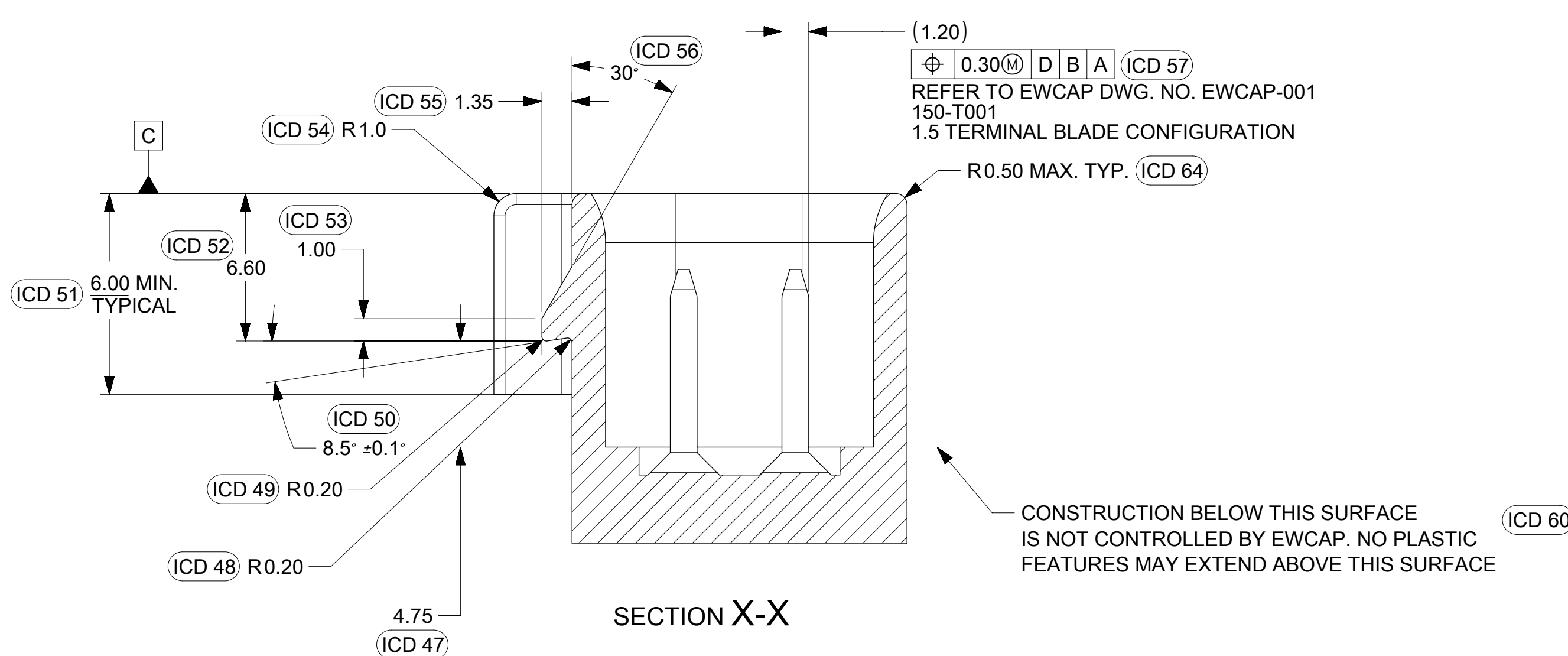
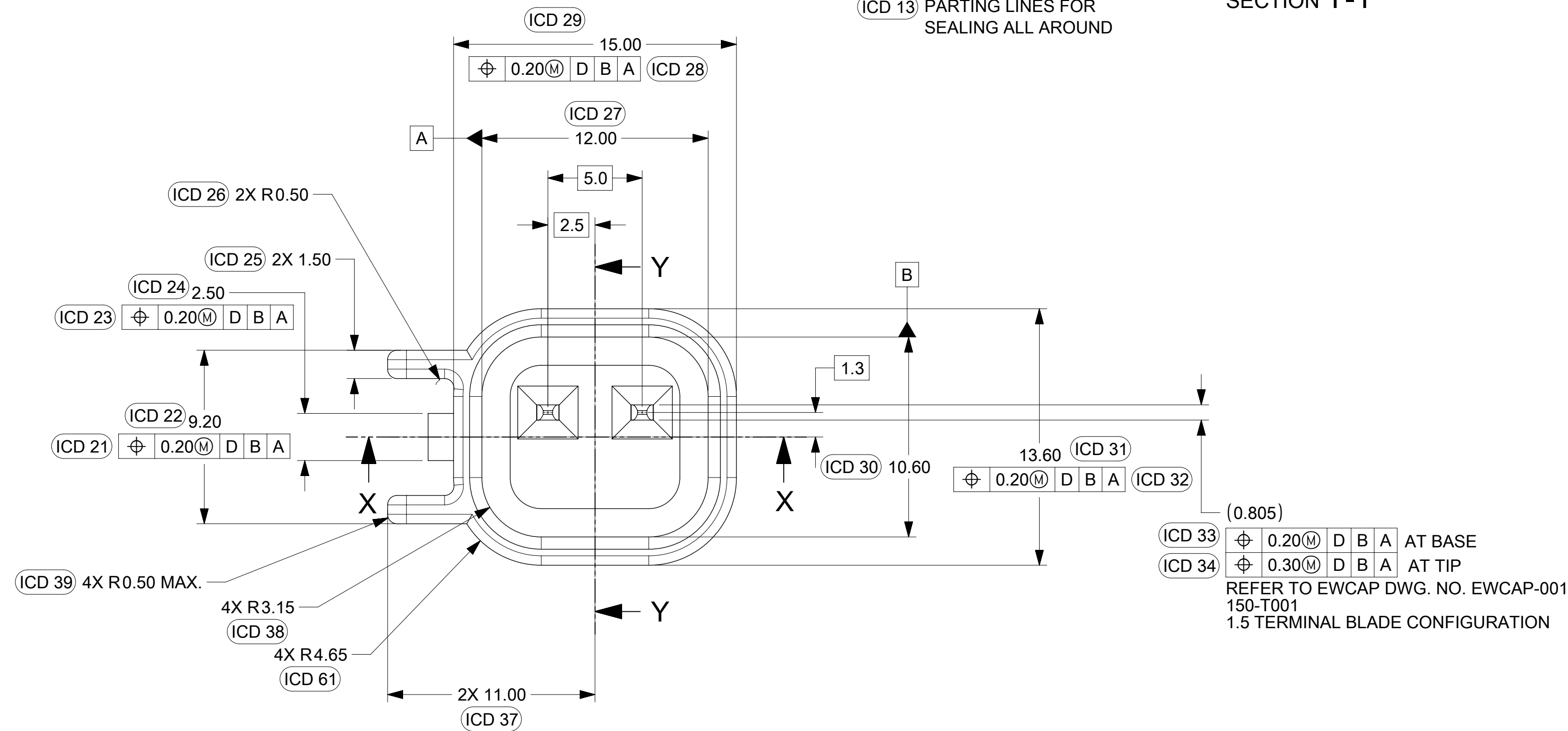
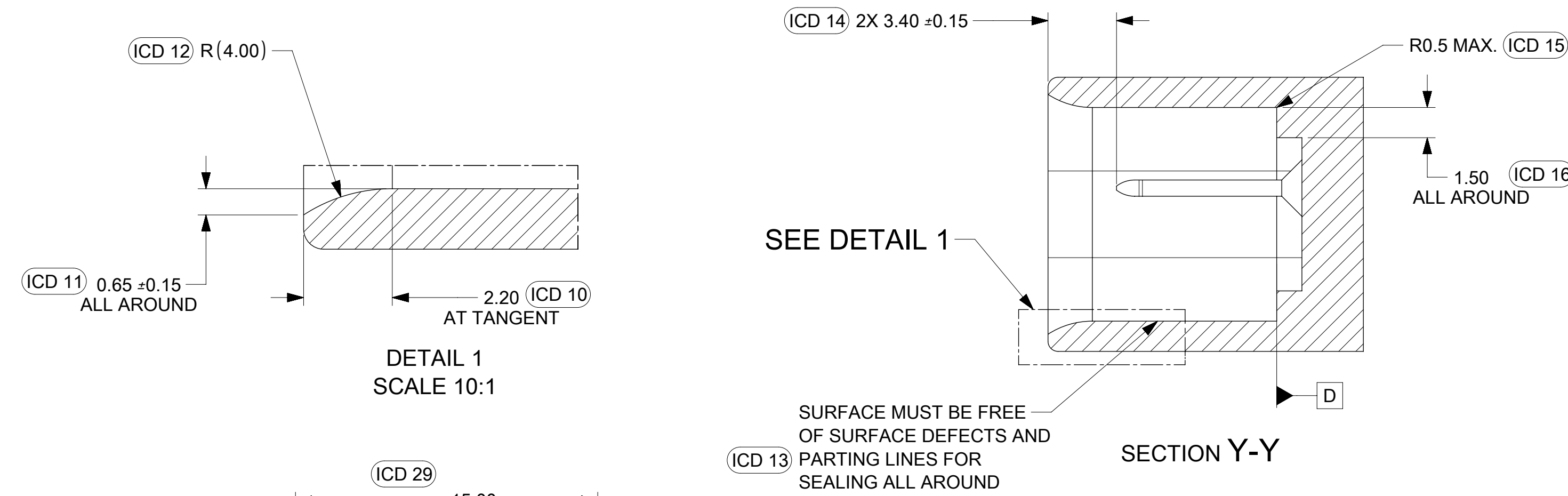
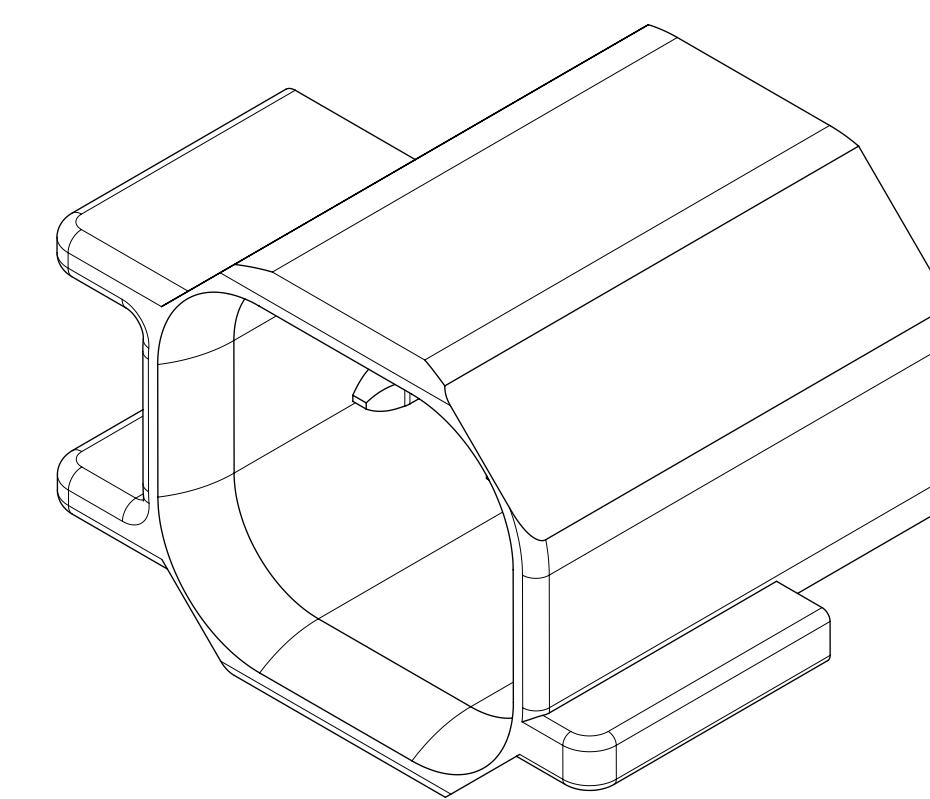


SECTION B-B
TPA SHOWN IN
FINAL-LOCK POSITION

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
QUALITY SYMBOLS		2017/05/15 2017/06/14 EC NO: 117955 DRWN: PKABBUR CHKD: KDEKOSKI APPR: KDEKOSKI J19	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex® MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)		
= 0					MM		4:1				
= 0			ANGULAR TOL ± 3.0 °		DRWN BY		DATE				
= 0			4 PLACES ±		KCUNNINGHAM		2011/11/08				
= 0			3 PLACES ±		CHK'D BY		DATE				
= 0			2 PLACES ± 0.1		MVANSLAMBROU		1/26/2012				
= 0			1 PLACE ± 0.3		APPR BY		DATE				
= 0			0 PLACES ±		KDEKOSKI		2017/06/14				
= 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION				
= 0					D						
			SERIES			MATERIAL NUMBER		CUSTOMER			
			34062			SEE NOTE 2a		GENERAL MARKET			
			DOCUMENT NUMBER			DOC TYPE		DOC PART		SHEET NUMBER	
			SD-34062-002			PSD		000		4 OF 5	

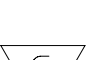
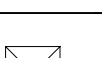
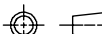


KEY OPTION	DIMENSIONS		
	DIM A	DIM B	DIM C
A, C, D	9.90	9.20	9.20
B	11.80	9.20	9.20
E	11.80	11.00	11.00
F	11.80	9.20	9.20
G	9.90	9.20	11.00
H	9.90	11.00	9.20

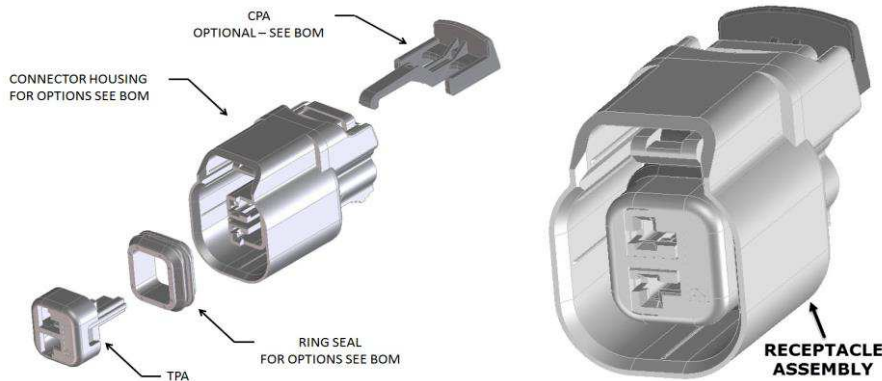


NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
3. 0.25 RADII ON ALL CORNERS SHOWN SHARP.
4. UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
5. STANDARD COLORS FOR POLARIZATION (SEE CHART).
DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
6. REFER TO SAE/USCAR-12 CONNECTOR GUIDELINES
FOR ADDITIONAL REQUIREMENTS.
7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE
WITHIN TOLERANCE.
8.  SYMBOL INDICATES DRAFT DIRECTION.
9. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS
AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS
DRAWING SEE EWCAP DESIGN GUIDE 001
10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED
TO ENSURE THAT THE CONNECTOR-HEADER POLARIZATION
FEATURES (OPTIONS A THRU H) WILL FUNCTION. THE FULL
SHROUD ALSO PREVENTS SCRAP DAMAGE TO THE HEADER
PINS. REFER TO SAE/USCAR-12 CONNECTOR DESIGN
GUIDE LINES FOR ADDITIONAL INFORMATION.
11. REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE
<http://www.uscarteams.org>
12. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA
IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION
NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
	= 0	EC NO: 117955 DRWN: PKABBUR CHKD: KDEKOSKI APPR: KDEKOSKI	2017/05/15	2017/06/14	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE							
	= 0						MM		5:1							
	= 0				ANGULAR TOL ± 3.0 °		DRWN BY		DATE		MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)					
	= 0						KCUNNINGHAM		2011/11/08							
	= 0				4 PLACES ±		CHK'D BY		DATE							
	= 0				3 PLACES ±		MVANSLAMBROU		1/26/2012							
	= 0				2 PLACES ± 0.1		APPR BY		DATE		PRODUCT CUSTOMER DRAWING					
	= 0				1 PLACE ± 0.3		KDEKOSKI		2017/06/14							
	= 0				0 PLACES ±		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER		
	= 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		E				34062	N/A		GENERAL MARKET		
		J19	REV						DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER			
									SD-34062-002		PSD	000	5 OF 5			

MX150 2 WAY CABLE SEAL RECEPTACLE CONNECTION SYSTEM (5.0mm PITCH)
BOM AND PIN OUT SHEET



RECOMMENDED MATING DEVICE TABLE			
ABBREVIATION	DESCRIPTION	DRAWING INFORMATION	ADDITIONAL INFORMATION
1	USCAR INTERFACE	150-S-002-1-Z01	http://ewcap.uscartcams.org
2	MOLEX INTERFACE	SD-34062-002 SHEET 5	
3	MOLEX INLINE MALE CONNECTOR	E-34675-001	

BOM/ APPLICABLE COMPONENTS TABLE				
ABBREVIATION	DESCRIPTION		COLOR	MATERIAL
A-BLK	HOUSING	OPTION A	BLACK	PA6 GF30
B-LG	HOUSING	OPTION B	LIGHT GRAY	PA6 GF30
B-BLK	HOUSING	OPTION B	BLACK	PA6 GF30
C-BLK	HOUSING	OPTION C	BLACK	PA6 GF30
D-BLK	HOUSING	OPTION D	BLACK	PA6 GF30
D-LG	HOUSING	OPTION D	LIGHT GRAY	PA6 GF30
E-BLK	HOUSING	OPTION E	BLACK	PA6 GF30
F-LG	HOUSING	OPTION F	LIGHT GRAY	PA6 GF30
G-BLK	HOUSING	OPTION G	BLACK	PA6 GF30
A-BLK-CLIP	HOUSING	OPTION A WITH CLIPSLOT	BLACK	PA6 GF30
B-LG-CLIP	HOUSING	OPTION B WITH CLIPSLOT	LIGHT GRAY	PA6 GF30
B-BLK-CLIP	HOUSING	OPTION B WITH CLIPSLOT	BLACK	PA6 GF30
C-BLK-CLIP	HOUSING	OPTION C WITH CLIPSLOT	BLACK	PA6 GF30
D-BLK-CLIP	HOUSING	OPTION D WITH CLIPSLOT	BLACK	PA6 GF30
D-LG-CLIP	HOUSING	OPTION D WITH CLIPSLOT	LIGHT GRAY	PA6 GF30
A-BLK-SV	HOUSING	OPTION A - SEVERE VIBRATION	BLACK	PA6 GF30
C-BLK-SV	HOUSING	OPTION C - SEVERE VIBRATION	BLACK	PA6 GF30
D-BLK-SV	HOUSING	OPTION D - SEVERE VIBRATION	BLACK	PA6 GF30
R3	RING SEAL TEMP. CLASS 3		MEDIUM BLUE	INHERENTLY LUBRICATED SILICONE
R4	RING SEAL TEMP. CLASS 4		GREEN	INHERENTLY LUBRICATED SILICONE
CPA	CPA		RED	PBT GF30
TPA	INSERT, TPA		NATURAL	PBT GF30

FOR ADDITIONAL INFORMATION SEE SD-34062-002

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	COMPONENT				ASSEMBLY OPERATING TEMPERATURE	RECOMMENDED MATING DEVICE			PRODUCTION TOOL STATUS	COMMENTS	
		THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT.					1	2	3			
		HOUSING OPTION/COLOR	TPA	CPA	RING SEAL							
OPTION A, BLACK, W/O CPA	34062-0021	A-BLK	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, LIGHT GRAY, W/O CPA	34062-0022	B-LG	TPA		R3	-40° C TO 125° C	1	2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, W/O CPA	34062-0023	C-BLK	TPA		R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION D, BLACK, W/O CPA	34062-0024	D-BLK	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION D, LIGHT GRAY, W/O CPA	34062-0029	D-LG	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION A, BLACK, W/ CPA	34062-0025	A-BLK	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, LIGHT GRAY, W/ CPA	34062-0026	B-LG	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, W/ CPA	34062-0027	C-BLK	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION D, BLACK, W/ CPA	34062-0028	D-BLK	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION D, LIGHT GRAY, W/ CPA	34062-0030	D-LG	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION A, BLACK, WITH CLIPSLOT, W/O CPA	34062-0031	A-BLK-CLIP	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/O CPA	34062-0032	B-LG-CLIP	TPA		R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, WITH CLIPSLOT, W/O CPA	34062-0033	C-BLK-CLIP	TPA		R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION D, BLACK, WITH CLIPSLOT, W/O CPA	34062-0034	D-BLK-CLIP	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION D, LIGHT GRAY, WITH CLIPSLOT, W/O CPA	34062-0035	D-LG-CLIP	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION A, BLACK, WITH CLIPSLOT, W/ CPA	34062-0036	A-BLK-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/ CPA	34062-0037	B-LG-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, WITH CLIPSLOT, W/ CPA	34062-0038	C-BLK-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION D, BLACK, WITH CLIPSLOT, W/ CPA	34062-0039	D-BLK-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION D, LIGHT GRAY, WITH CLIPSLOT, W/ CPA	34062-0040	D-LG-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION A, BLACK, SEVERE VIBRATION, W/ CPA	34062-4006	A-BLK-SV	TPA	CPA	R4	-40° C TO 155° C	1	2		SALEABLE		
OPTION C, BLACK, SEVERE VIBRATION, W/ CPA	34062-4008	C-BLK-SV	TPA	CPA	R4	-40° C TO 155° C	1	2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION D, BLACK, SEVERE VIBRATION, W/ CPA	34062-4009	D-BLK-SV	TPA	CPA	R4	-40° C TO 155° C	1	2		SALEABLE		
OPTION E, BLACK, W/O CPA	34062-0041	E-BLK	TPA		R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION F, LIGHT GRAY, W/O CPA	34062-0042	F-LG	TPA		R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION G, BLACK, W/O CPA	34062-0043	G-BLK	TPA		R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION E, BLACK, W/ CPA	34062-0044	E-BLK	TPA	CPA	R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION F, LIGHT GRAY, W/ CPA	34062-0045	F-LG	TPA	CPA	R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION G, BLACK, W/ CPA	34062-0046	G-BLK	TPA	CPA	R4	-40° C TO 155° C		2		SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION A, BLACK, W/ CPA	34062-0047	A-BLK	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, LIGHT GRAY, W/O CPA	34062-0048	B-LG	TPA		R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, W/O CPA	34062-0049	C-BLK	TPA		R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION B, LIGHT GRAY, W/ CPA	34062-0050	B-LG	TPA	CPA	R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, W/ CPA	34062-0051	C-BLK	TPA	CPA	R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	</

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