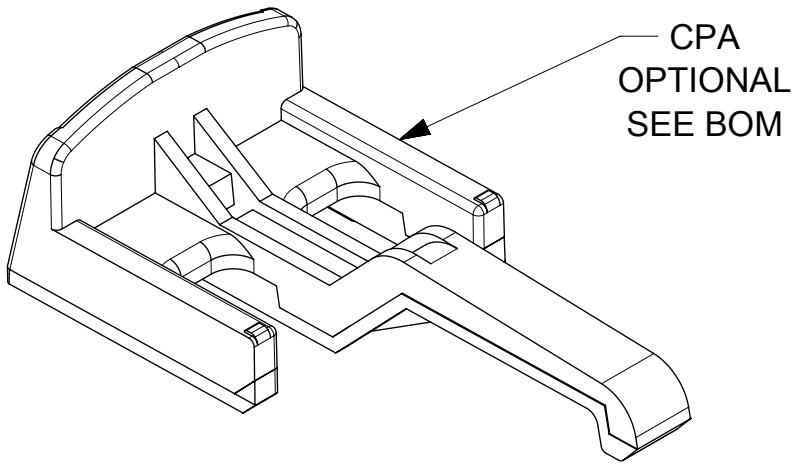
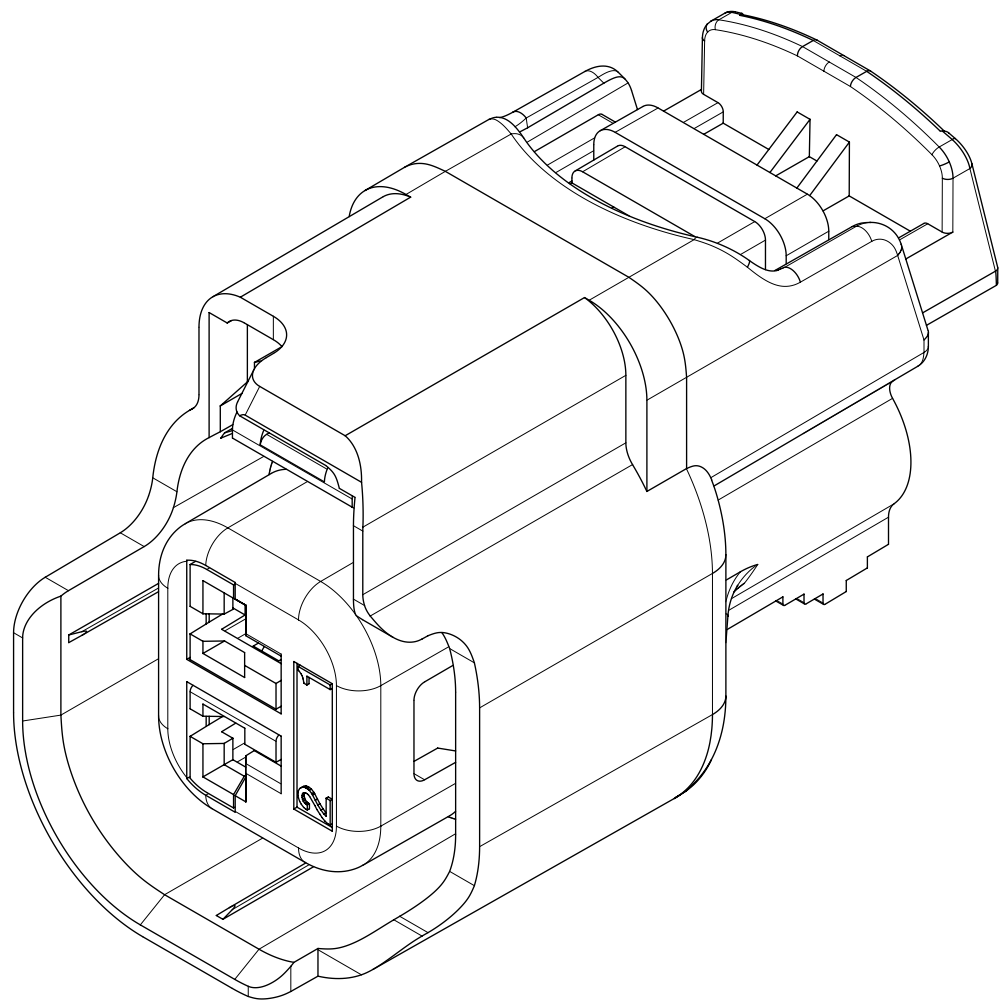
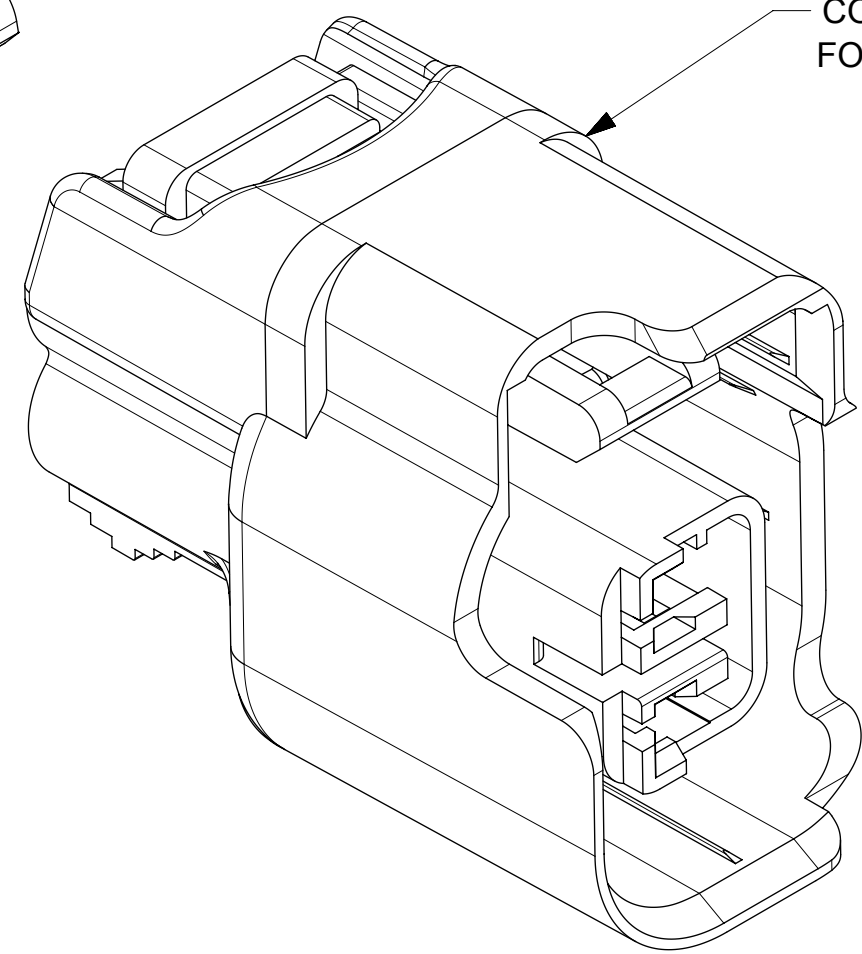
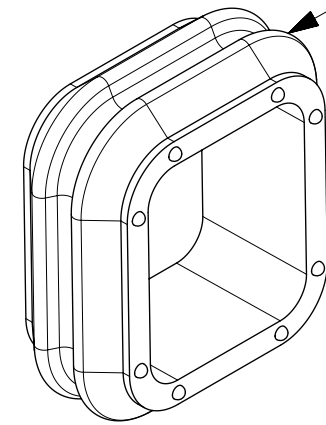




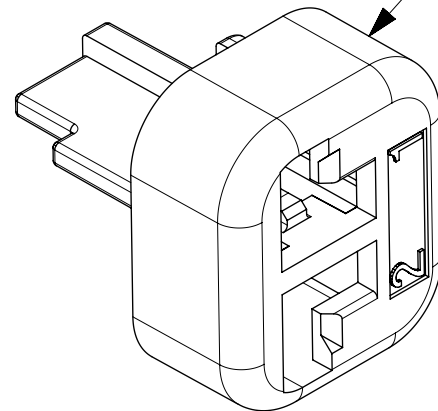
CPA
OPTIONAL
SEE BOM



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

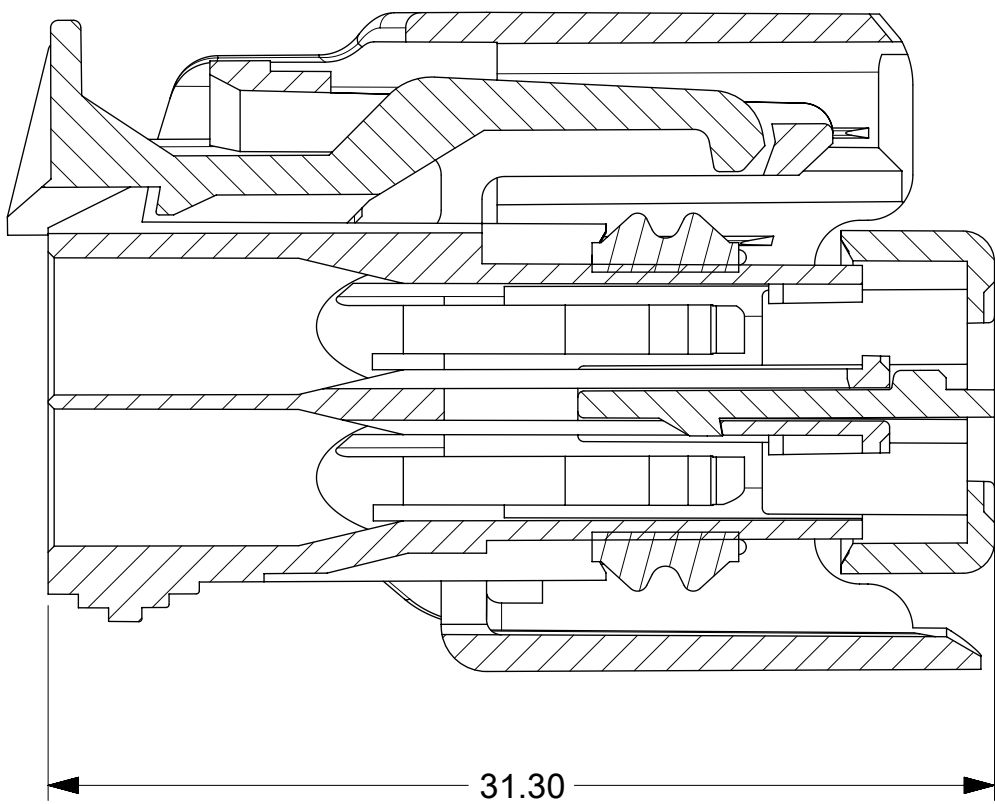
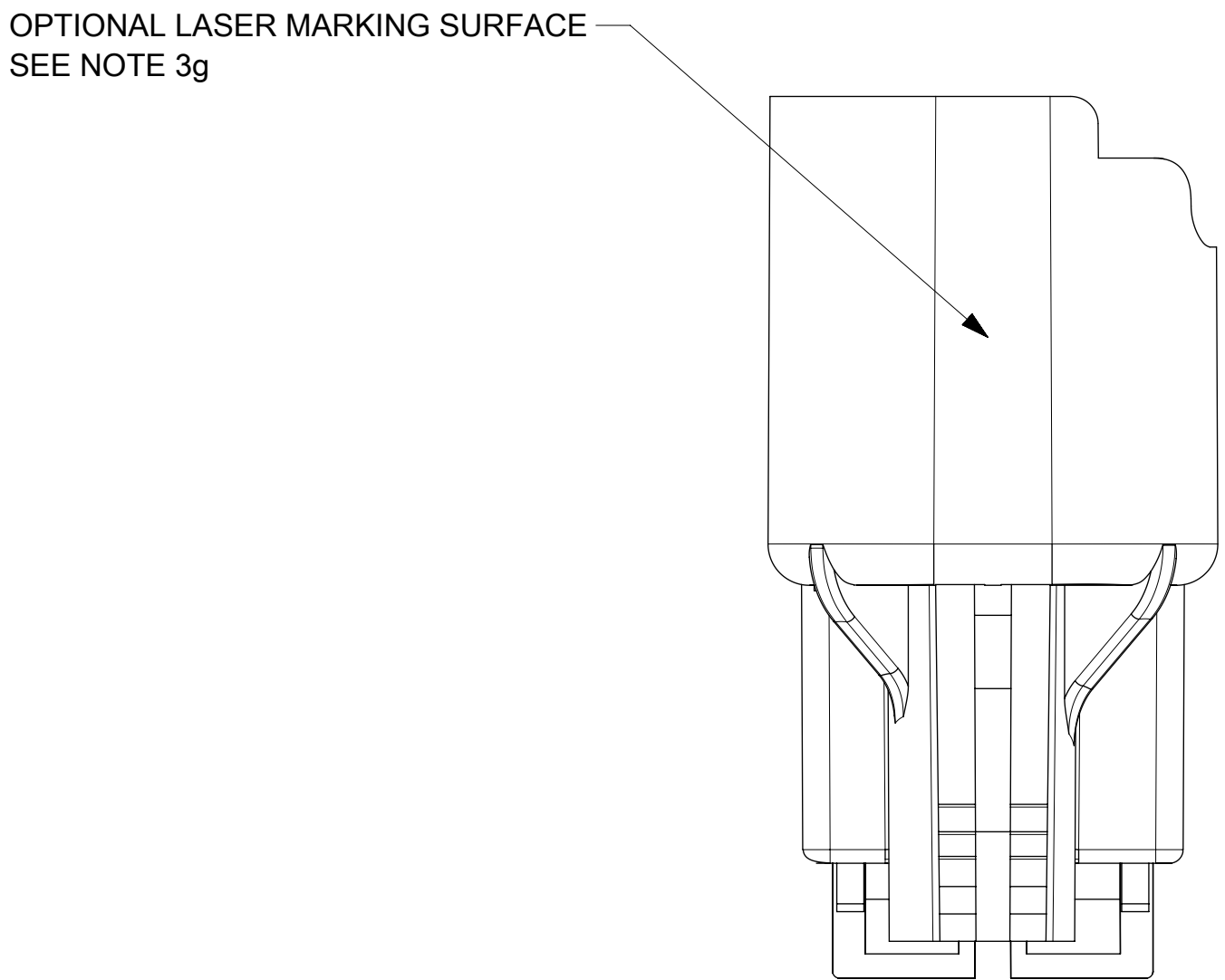
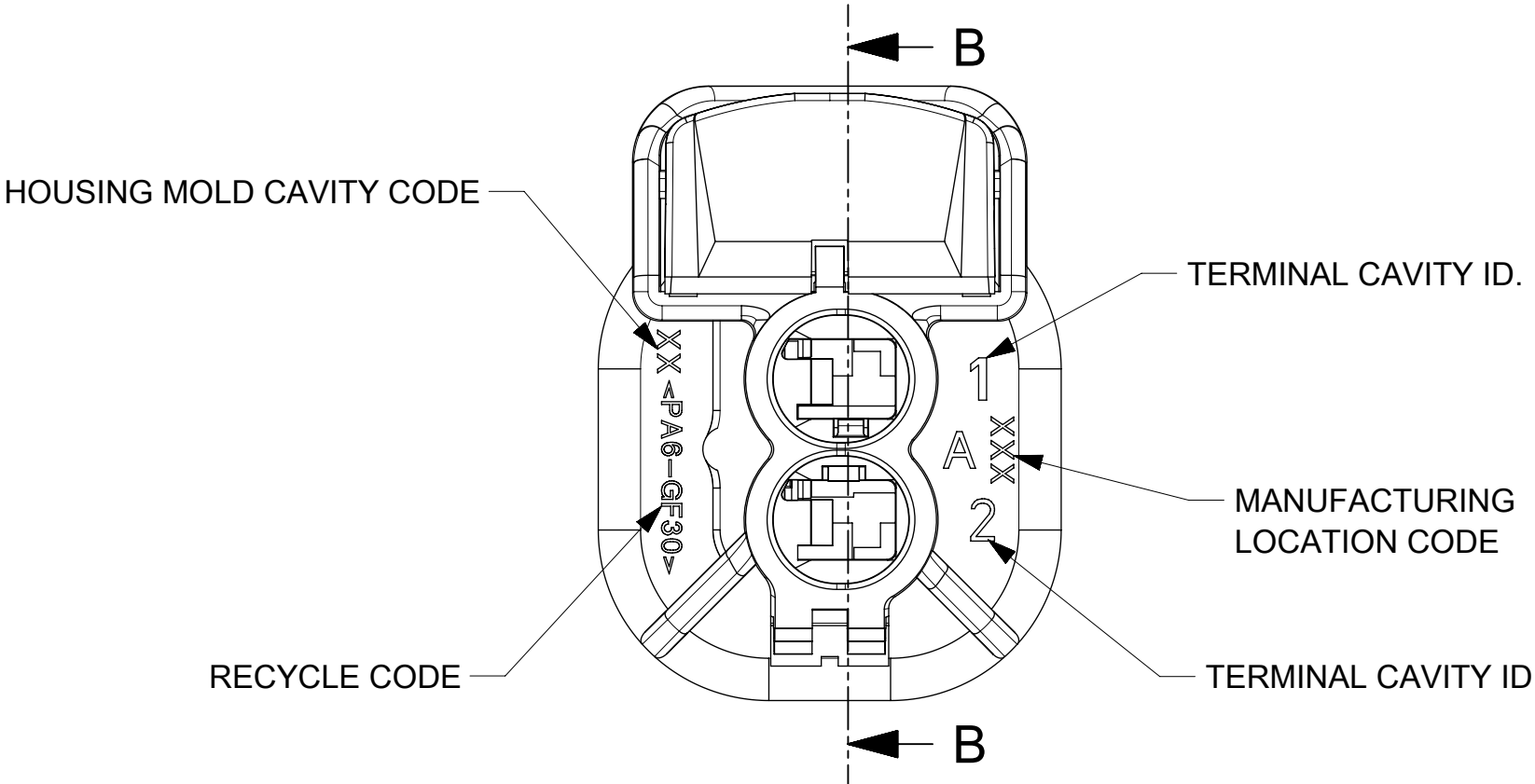
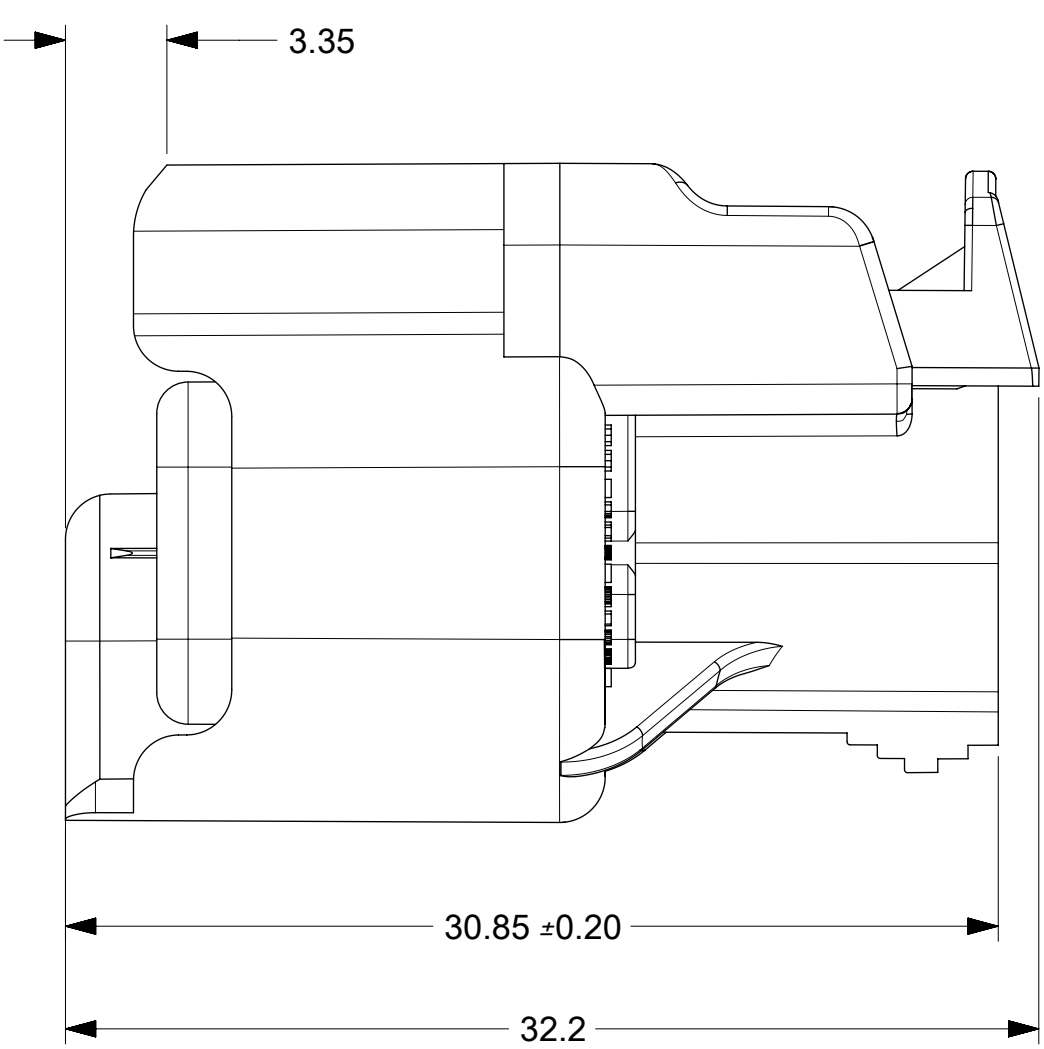
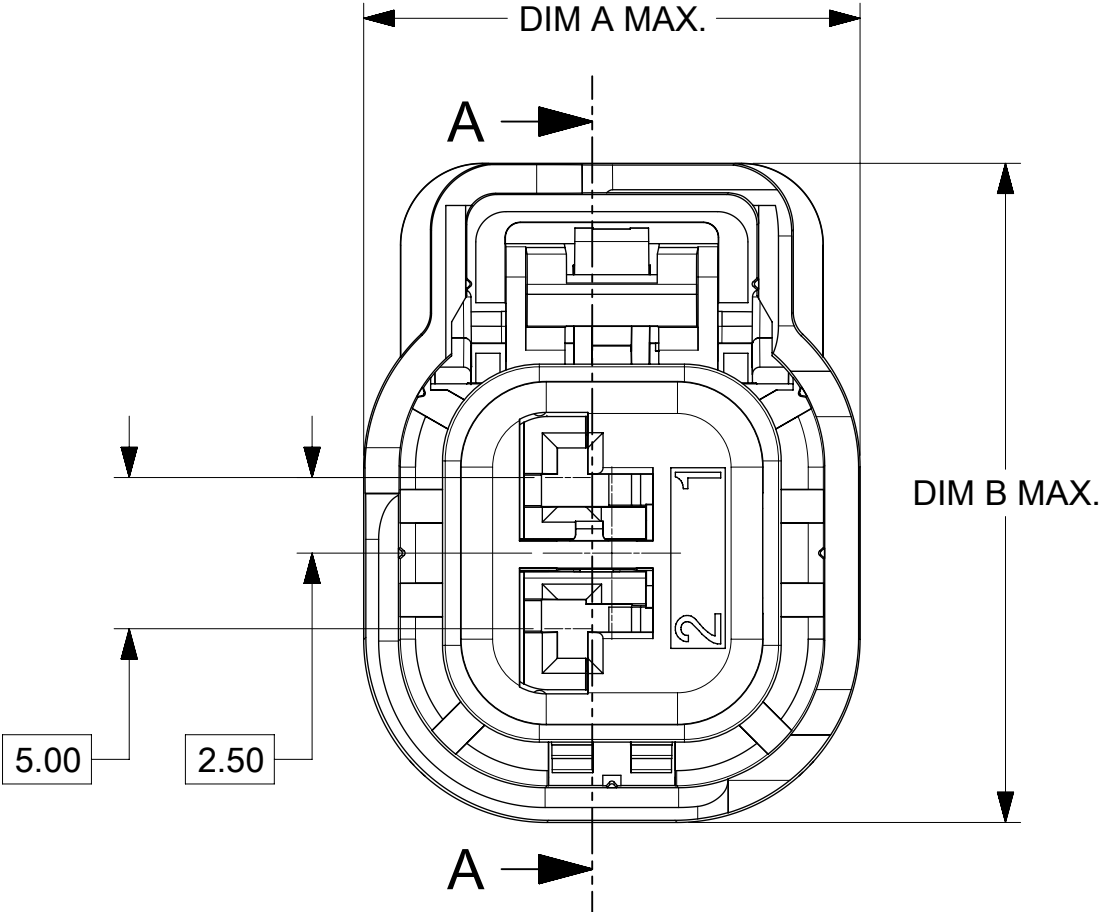
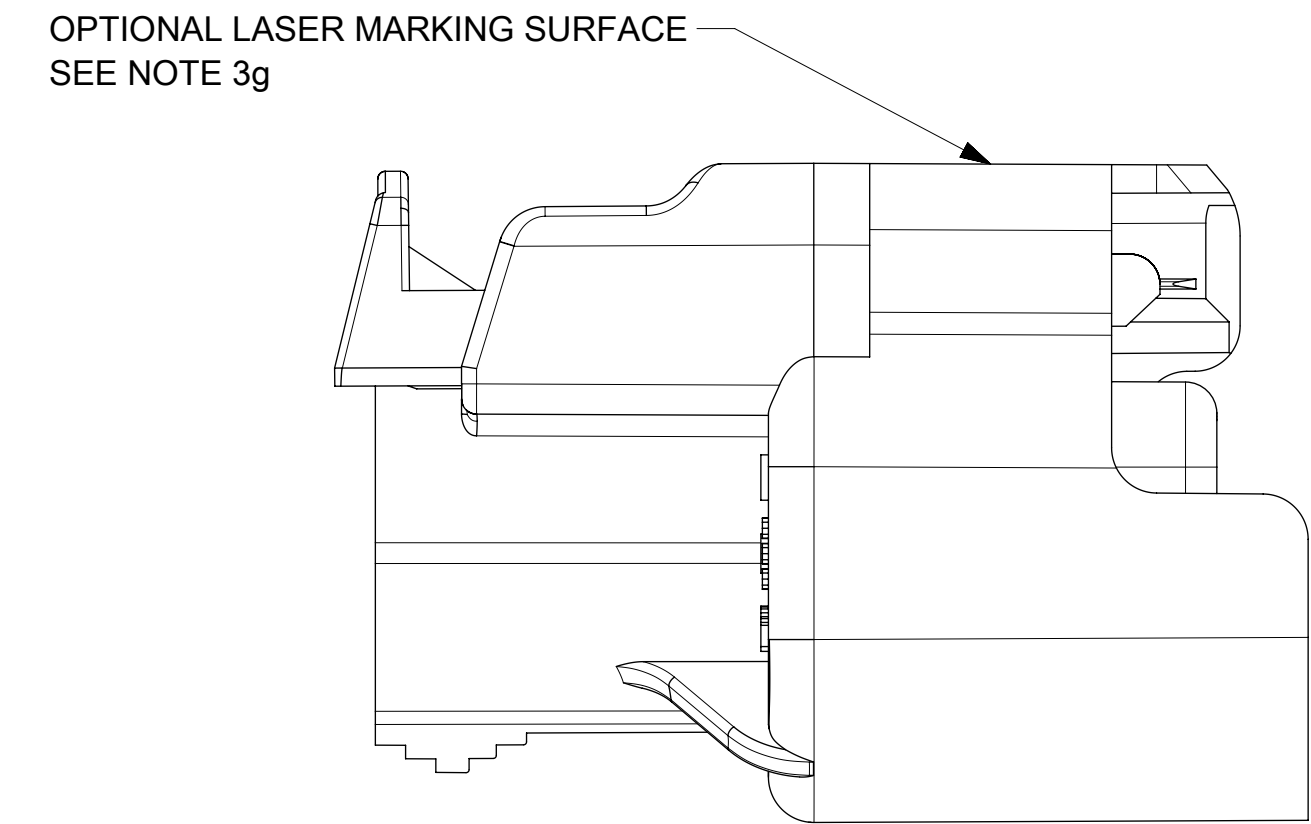
INSPECTION BALLOON NUMBER LOG									
PER DRAWING REVISION: J18									
LAST BALLOON NUMBER USED: ICD 64									
ADDED BALLOON NUMBERS: ICD 64									
REMOVED BALLOON NUMBERS: ICD 7, ICD 8, ICD 9,ICD 18, ICD 19, ICD 20, ICD 41, ICD 42									

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
= 0	EC NO: 117955 DRWN: PKABBUR CHKD: KDEKOSKI REV: J19	2017/05/15 2017/06/14	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		PRODUCT CUSTOMER DRAWING					
= 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER	
= 0					D				34062	SEE NOTE 2a		GENERAL MARKET	
= 0									DOCUMENT NUMBER SD-34062-002		DOC TYPE PSD	DOC PART 000	SHEET NUMBER 1 OF 5

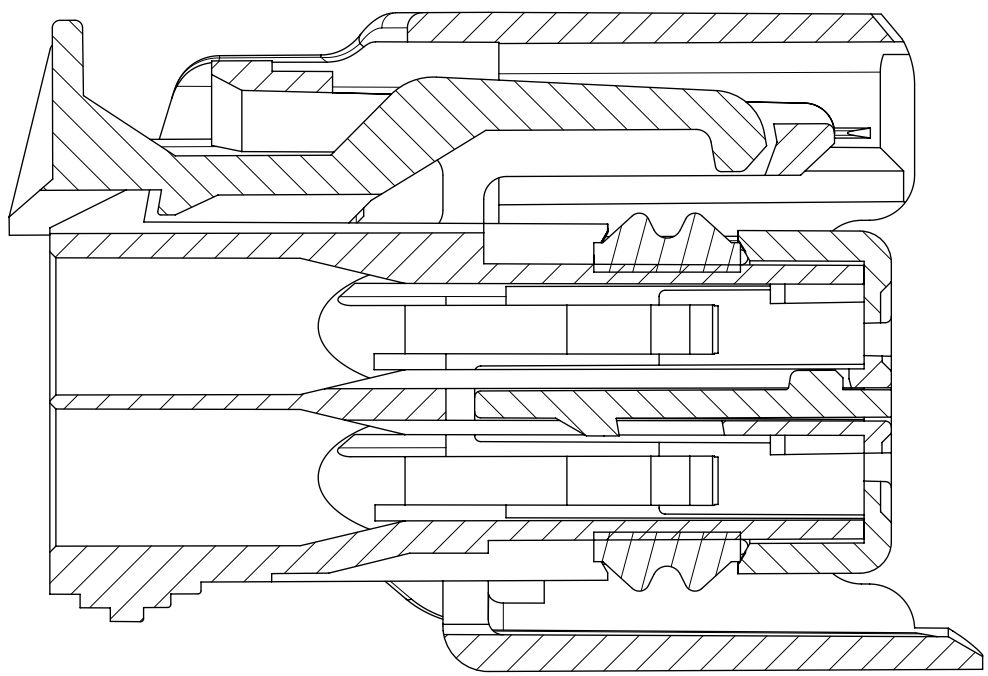
RELEASE STATUS	RELEASE DATE
19	18
17	16
15	14
13	12
11	10
9	8
7	6
5	4
3	2
1	

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

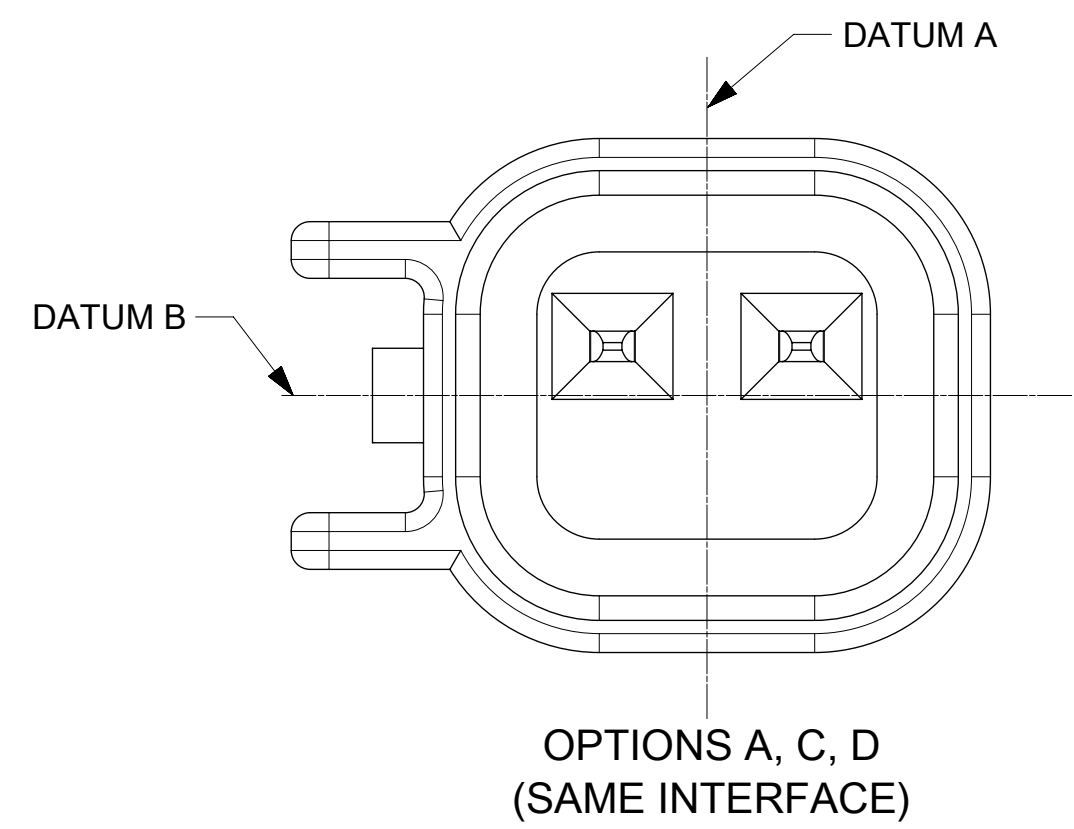


SECTION A-A
TPA SHOWN IN THE
PRE-STAGED POSITION

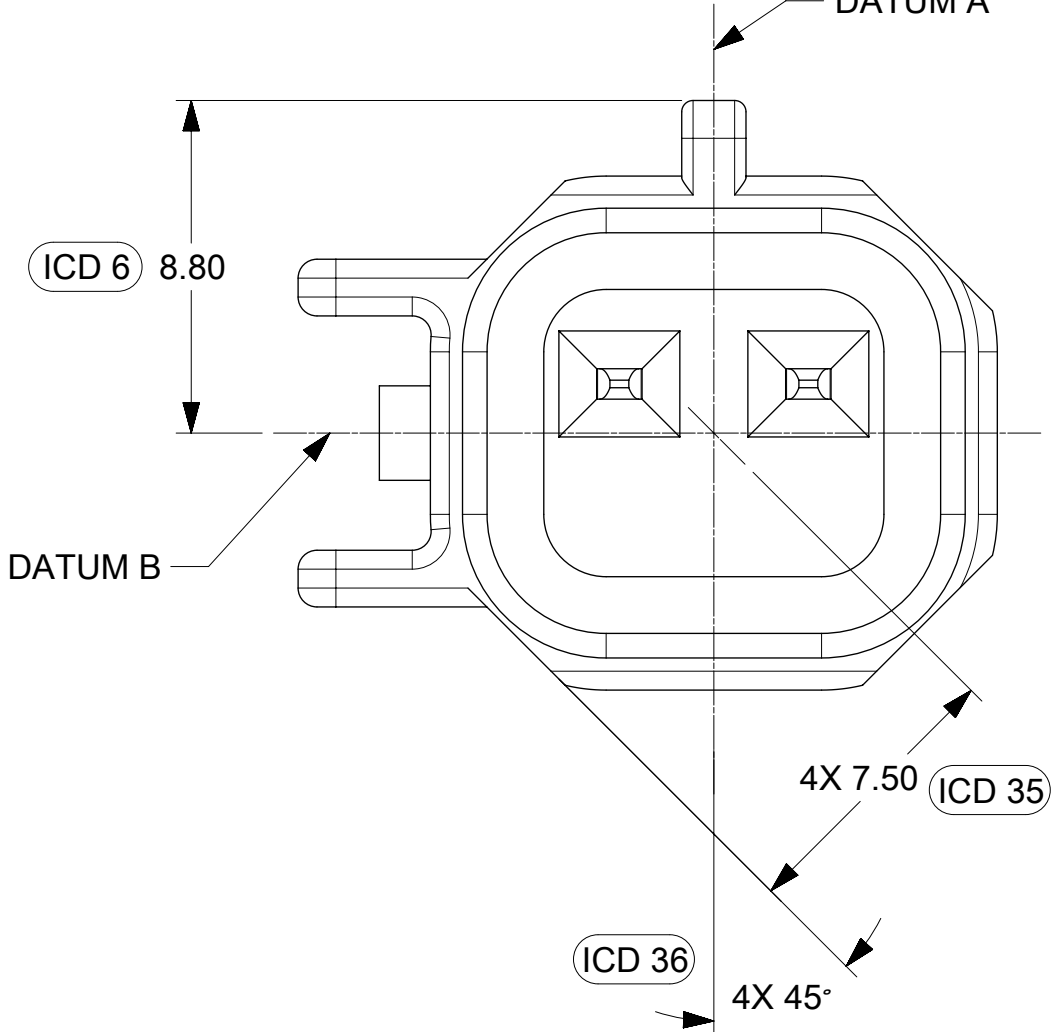


SECTION B-B
TPA SHOWN IN
FINAL-LOCK POSITION

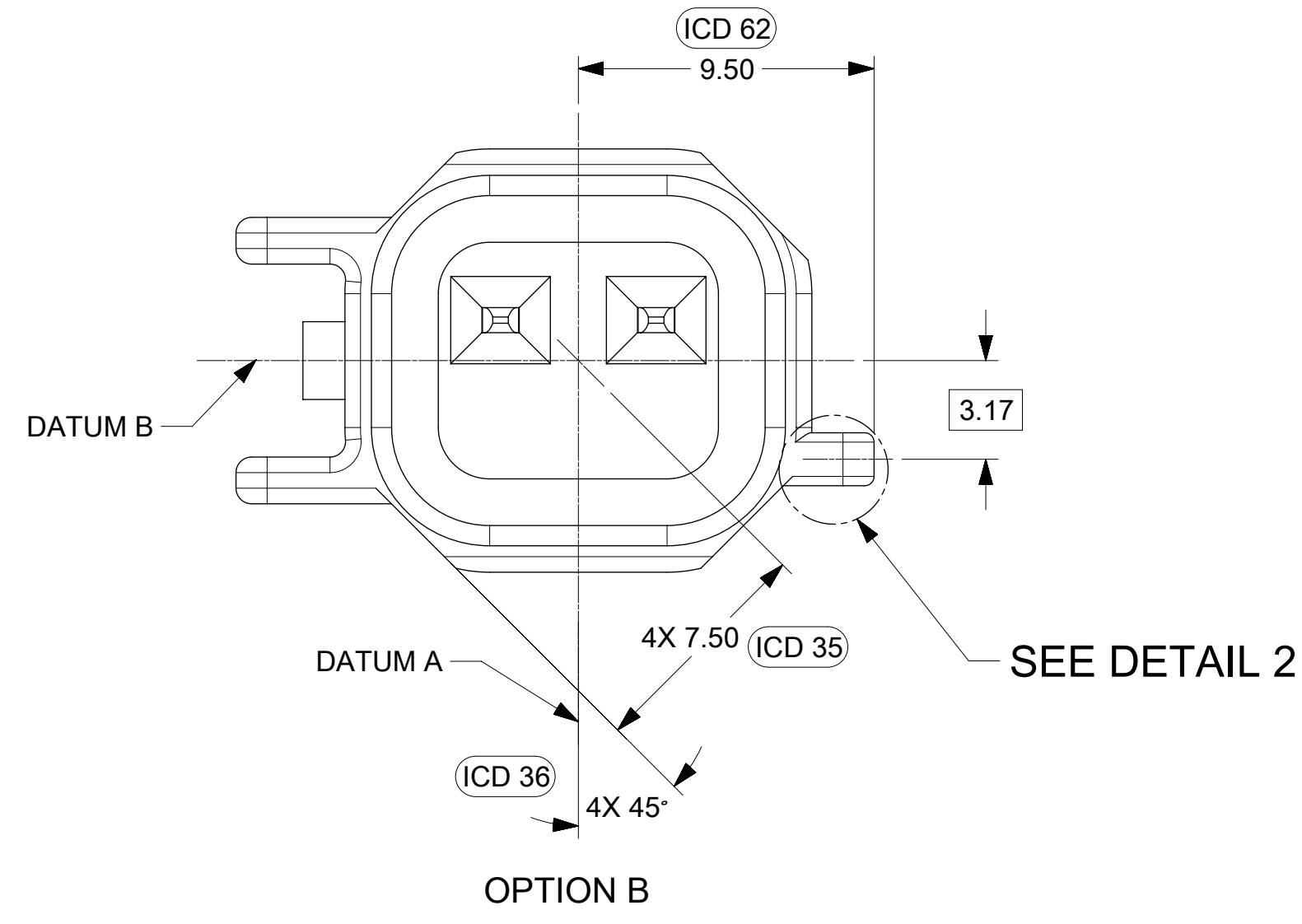
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
QUALITY SYMBOLS		2017/05/15 2017/06/14 EC NO: 117955 DRWN: PKABBUR CHKD: KDEKOSKI REV: APPR: KDEKOSKI J19		GENERAL TOLERANCES (UNLESS SPECIFIED)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



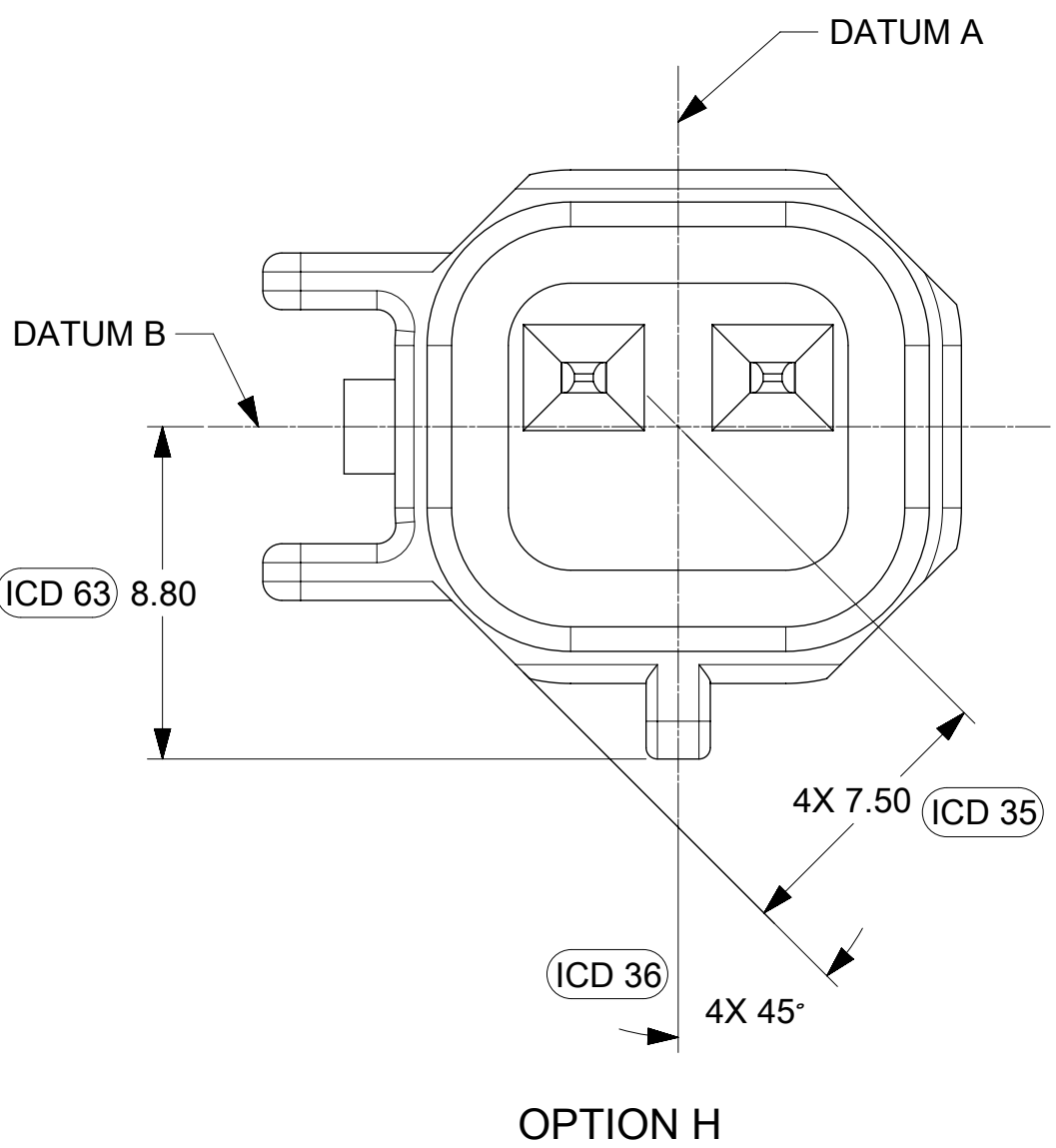
OPTIONS A, C, D
(SAME INTERFACE)



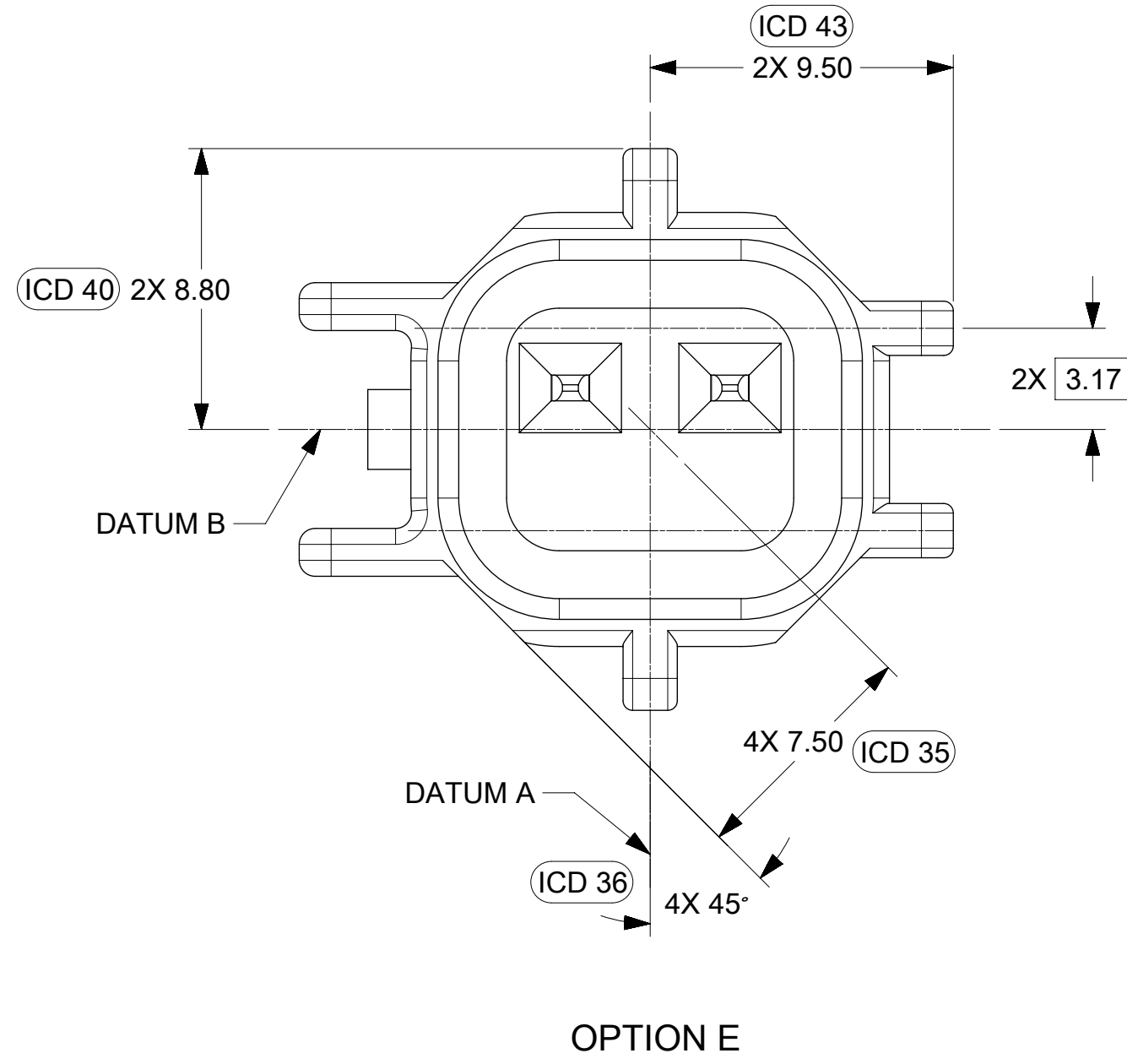
OPTION G



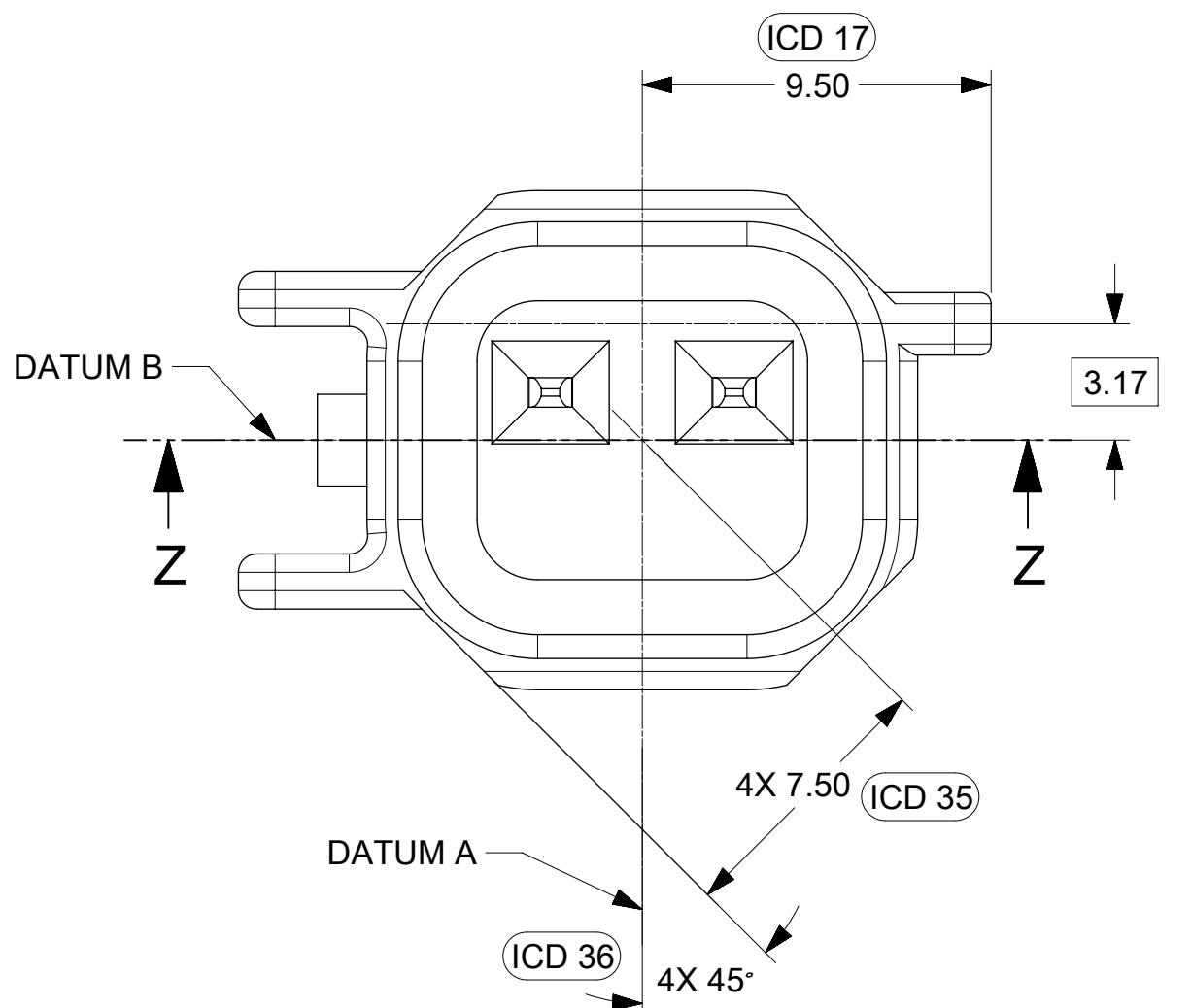
OPTION B



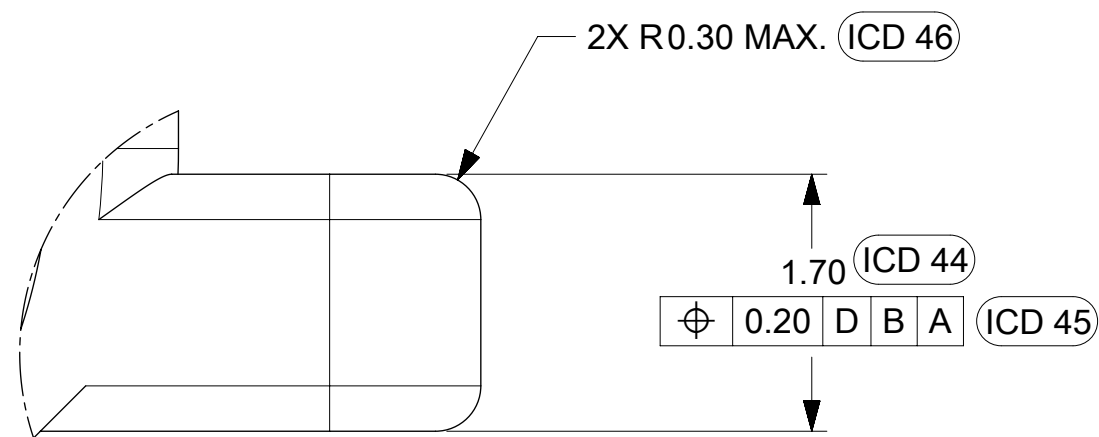
OPTION H



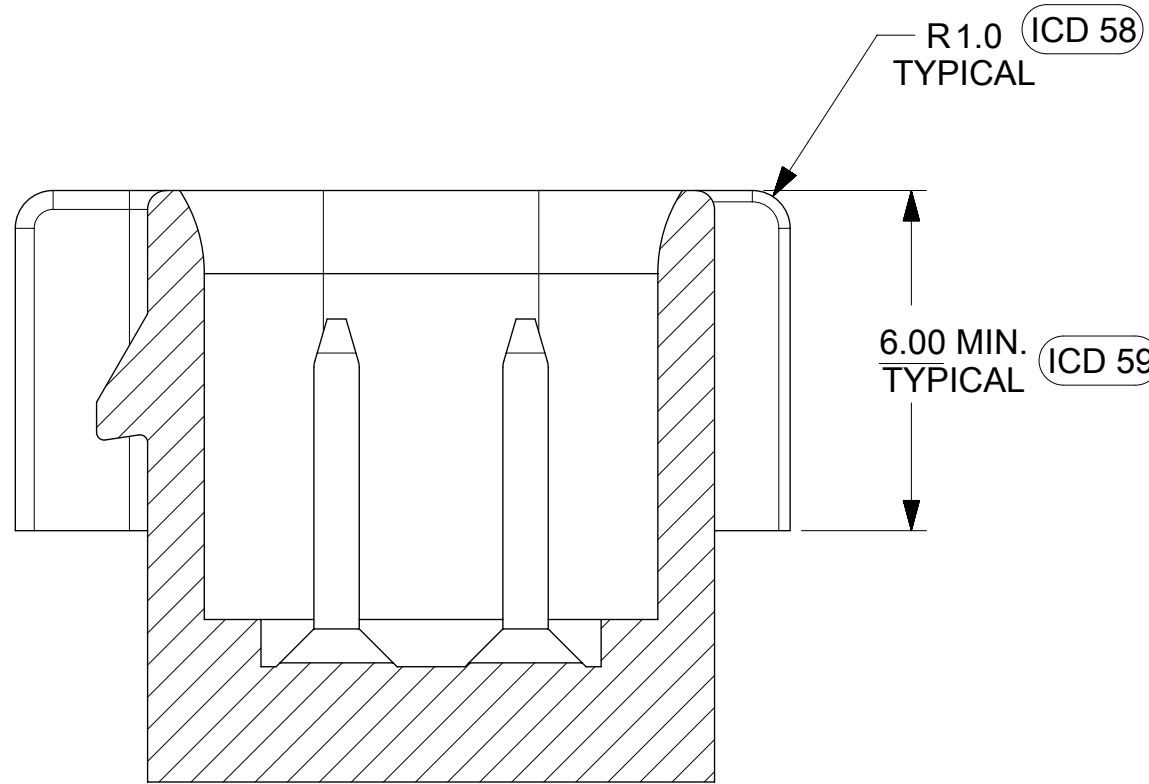
OPTION E



OPTION F

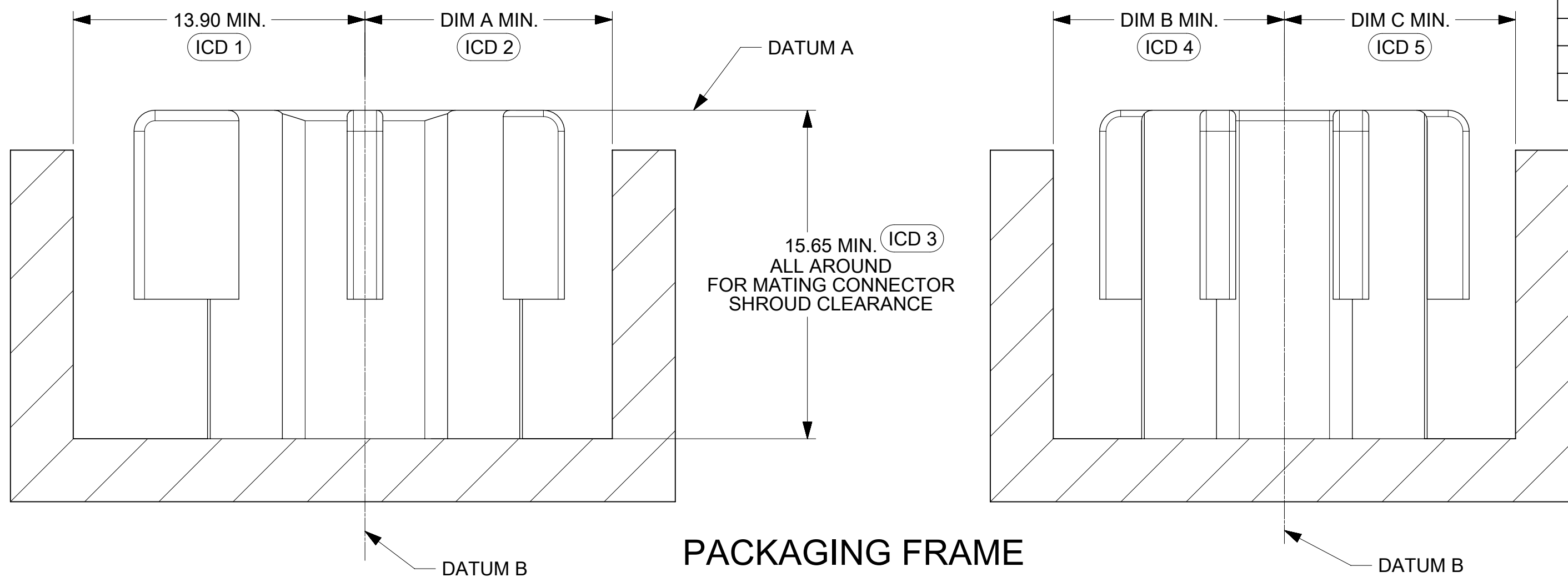


DETAIL 2
SCALE 20:1
TYPICAL
SEE KEYING OPTIONS VIEWS FOR POSITIONS



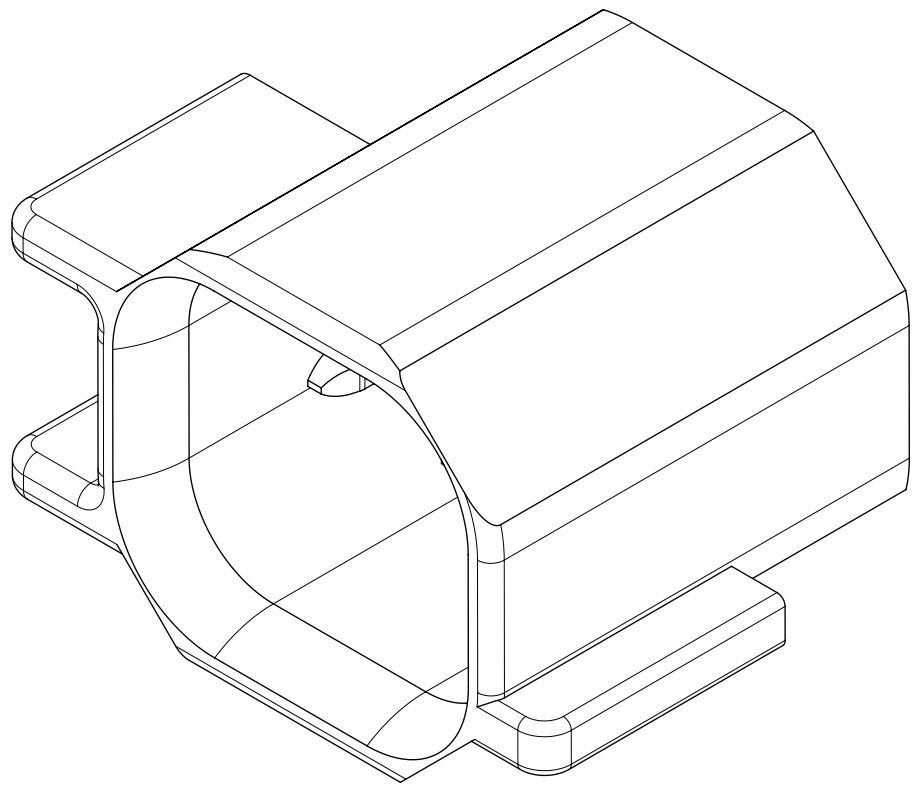
SECTION Z-Z
SEE KEYING OPTION VIEWS FOR POSITIONS

IF A HEADER IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT THE MINIMUM CLEARANCE REQUIRED FOR THE MATING CONNECTOR SHROUD.

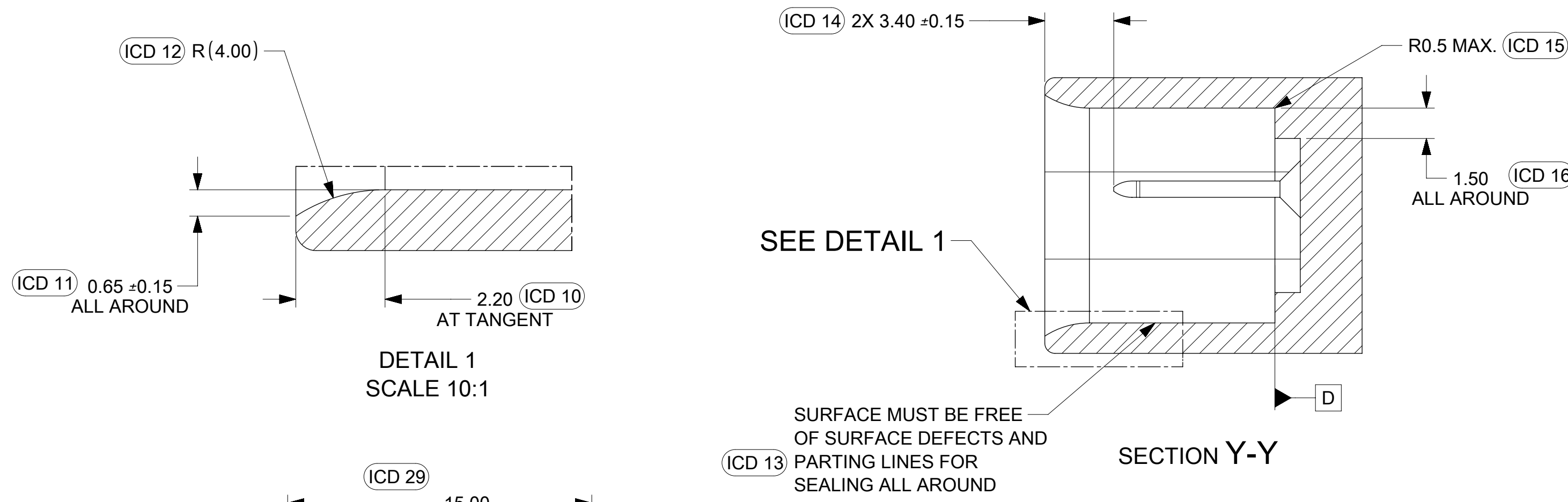


PACKAGING FRAME

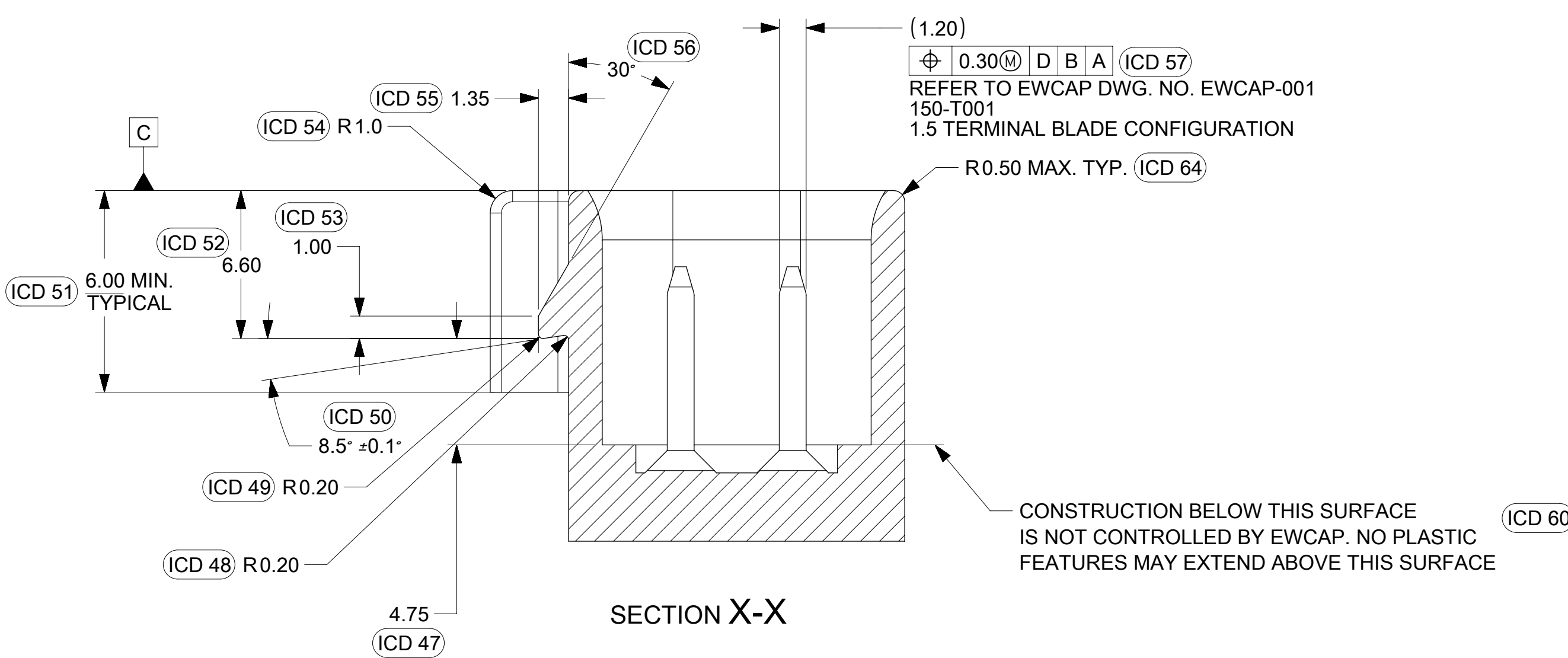
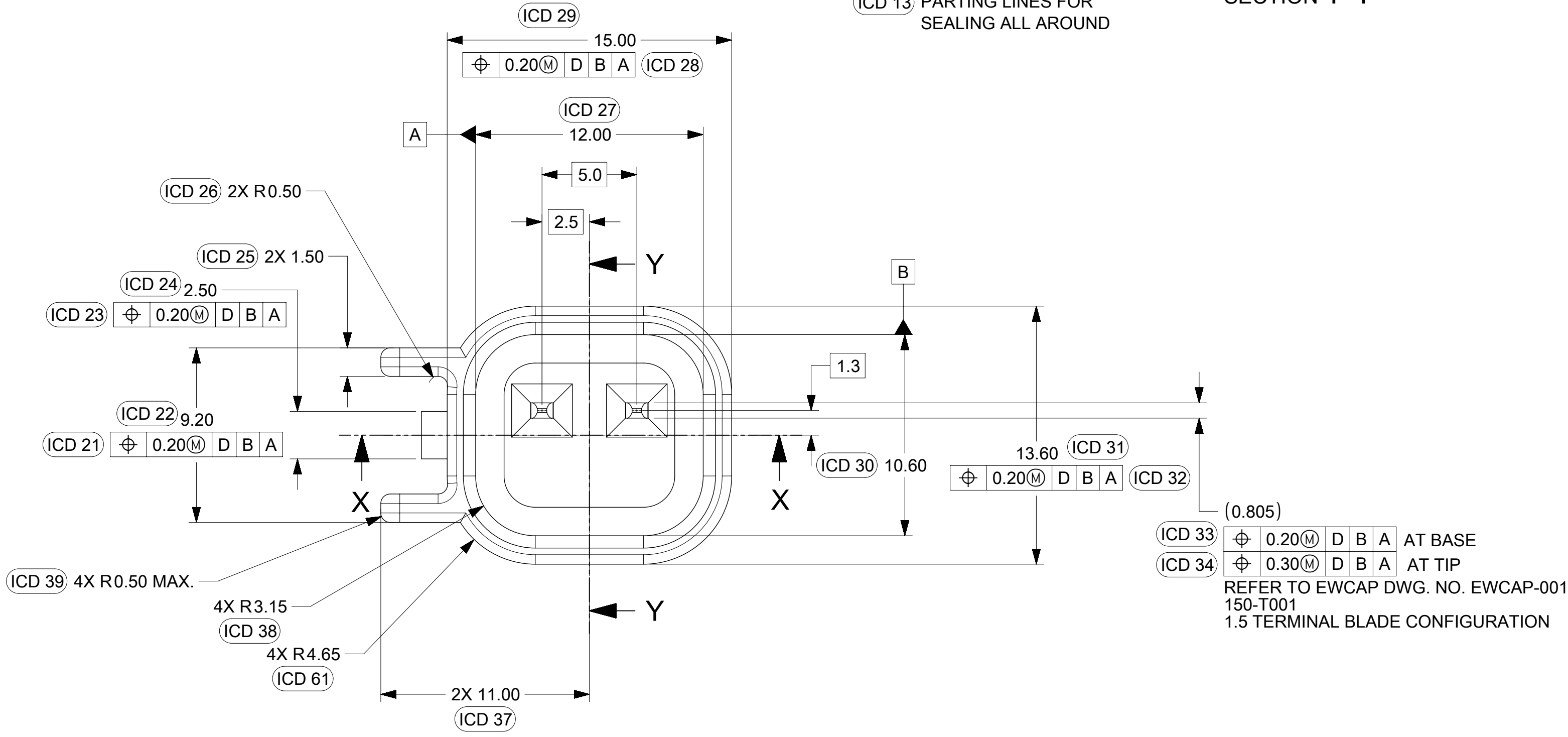
KEY OPTION	DIMENSIONS		
	DIM A	DIM B	DIM C
A, C, D	9.90	9.20	9.20
B	11.80	9.20	9.20
E	11.80	11.00	11.00
F	11.80	9.20	9.20
G	9.90	9.20	11.00
H	9.90	11.00	9.20



OPTION B



SECTION Y-Y



SECTION X-X

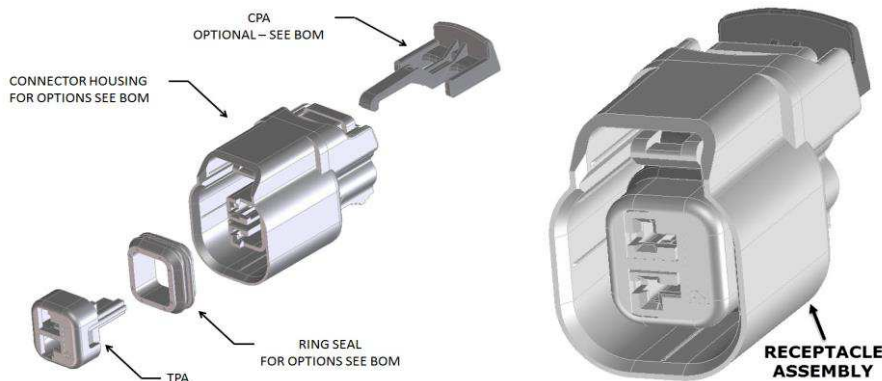
NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS SHOWN IN MILLIMETERS.
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 0.25 RADII ON ALL CORNERS SHOWN SHARP.
- UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
- STANDARD COLORS FOR POLARIZATION (SEE CHART). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
- REFER TO SAE/USCAR 12 CONNECTOR GUIDELINES FOR ADDITIONAL REQUIREMENTS.
- EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE WITHIN TOLERANCE.
- SYMBOL INDICATES DRAFT DIRECTION.
- FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DWG. NO. EWCAP-001
- 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 SCOOP DAMAGE TO THE HEADER PINS. REFER TO SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES FOR ADDITIONAL INFORMATION.
- REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE <http://www.uscarteams.org>
- 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: PKABUR CHKD: KDEKOSKI REV APPR: KDEKOSKI	2017/05/15	2017/06/14	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE		molex® MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)						
	= 0					MM		5:1								
	= 0					DRWN BY DATE										
	= 0					KCUNNINGHAM 2011/11/08										
	= 0					CHK'D BY DATE										
	= 0					MVANSLAMBROU 1/26/2012										
	= 0					APPR BY DATE				PRODUCT CUSTOMER DRAWING						
	= 0					KDEKOSKI 2017/06/14										
	= 0					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER	
	= 0					J19		E				34062	N/A		GENERAL MARKET	
	= 0							DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER				
								SD-34062-002		PSD	000	5 OF 5				

A, C, D	BLACK	A	
B	LIGHT GRAY	B	
E	BLACK	E	NOT RECOMMENDED MATING CONNECTOR IS UNIVERSAL
F	LIGHT GRAY	D	
G	BLACK	C	
H	LIGHT GRAY	F	
OPTION	COLOR	SIMILAR TO AFL DRAWING R63461 (OPTION GEOMETRY IDENTICAL)	COMMENTS
RELEASE STATUS	RELEASE DATE		

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	</