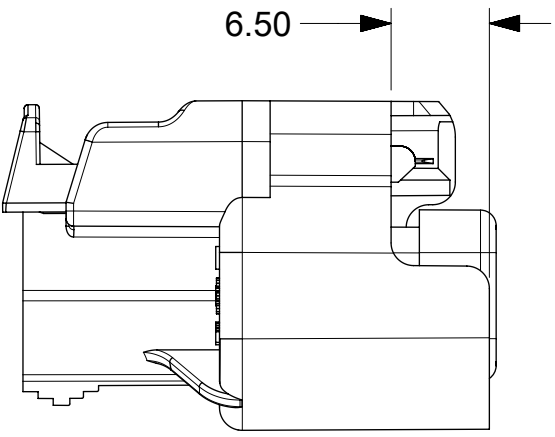
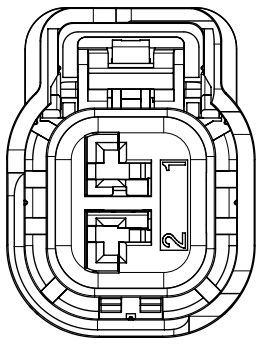
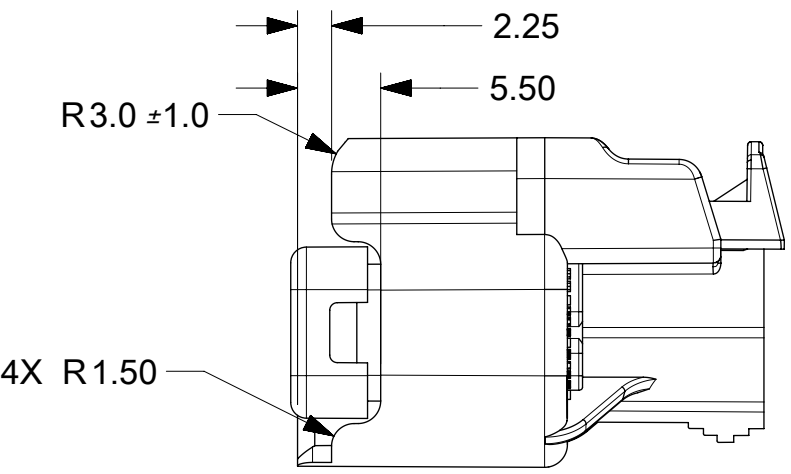
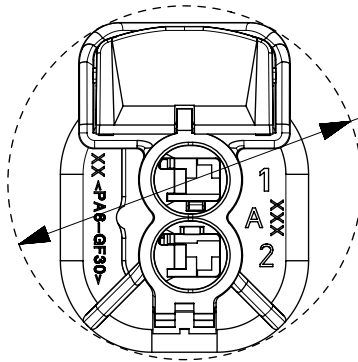


SHEET DESCRIPTION
CONFIGURATIONS

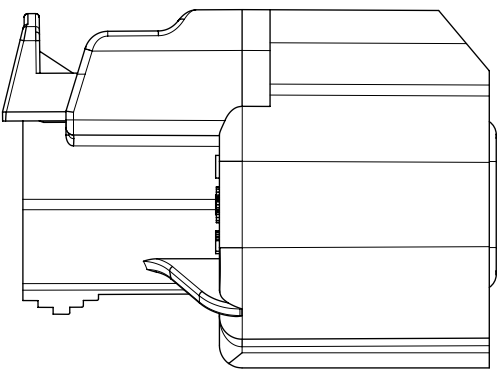
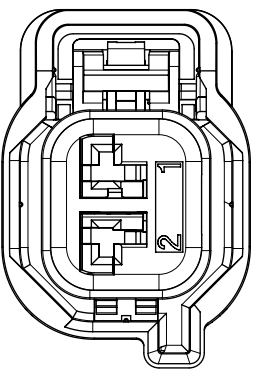


OPTION A

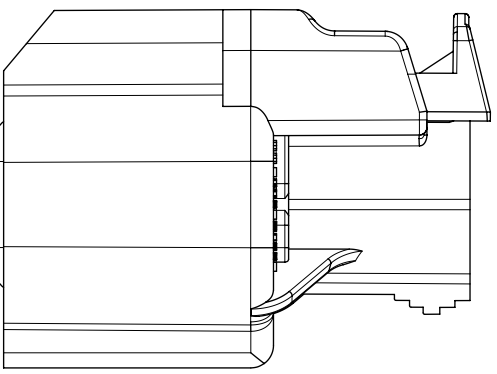
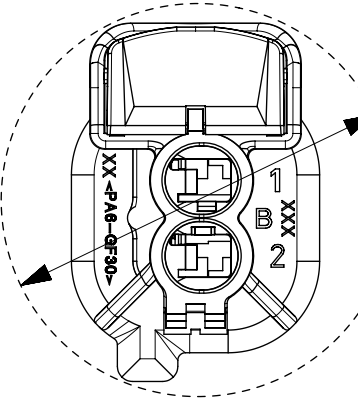


Ø23.40
MINIMUM PASS-THRU WITH
NO CLEARANCE
APPLIES TO NON-CLIP SLOT
OPTIONS A, C, D & G

REAR VIEW

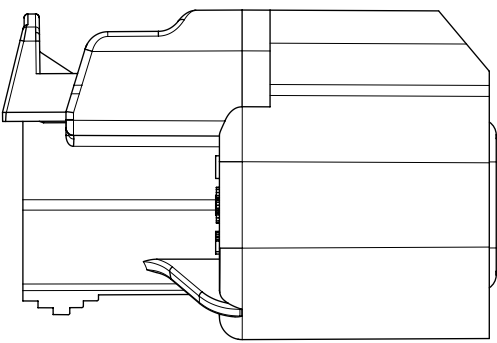
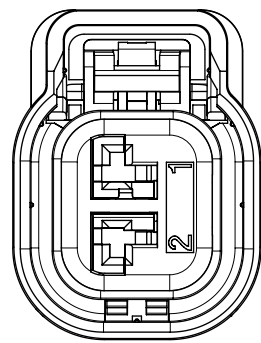


OPTION B

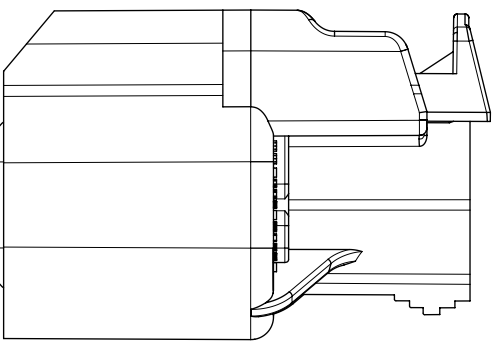
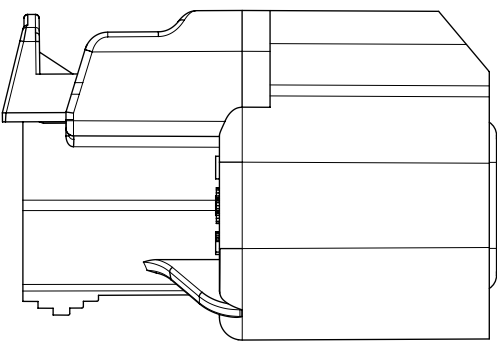
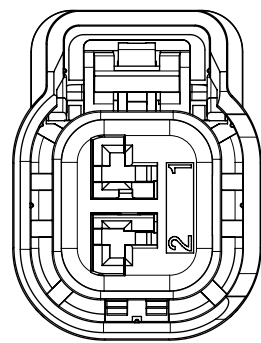


Ø26.00
MINIMUM PASS-THRU WITH
NO CLEARANCE
APPLIES TO NON-CLIP SLOT
OPTIONS B, E & F

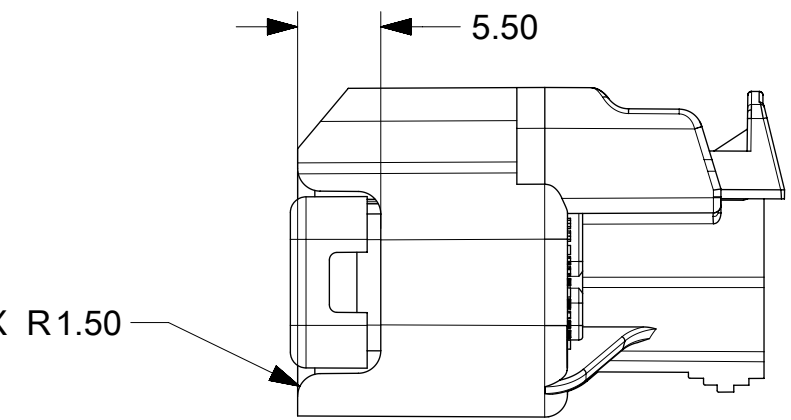
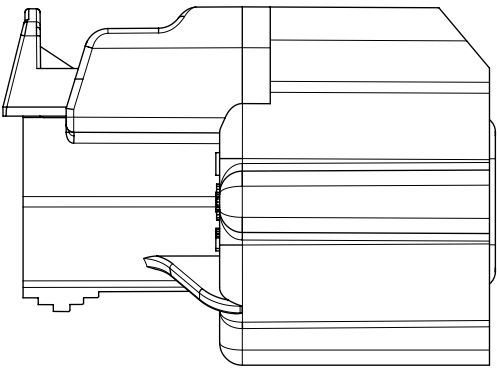
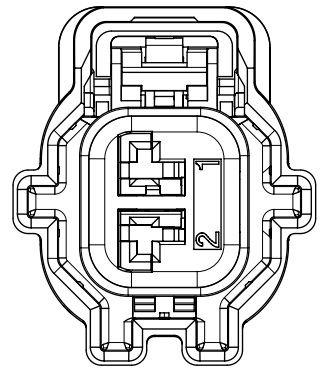
REAR VIEW



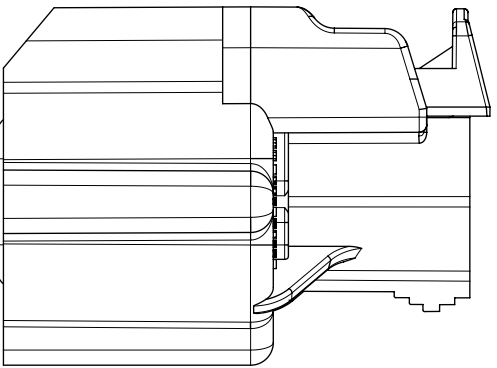
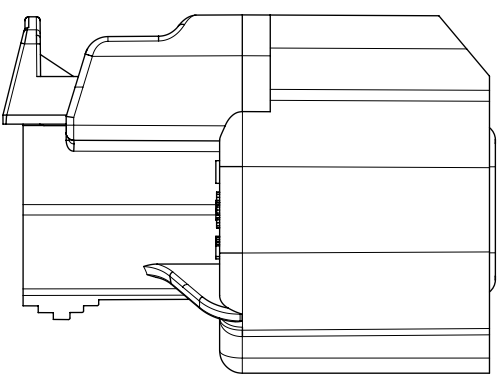
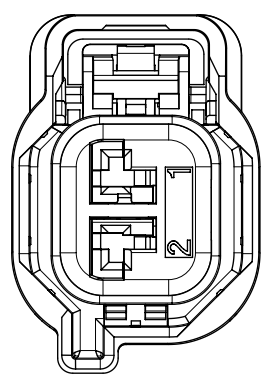
OPTION C



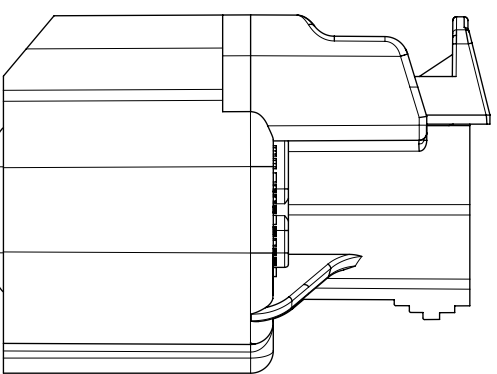
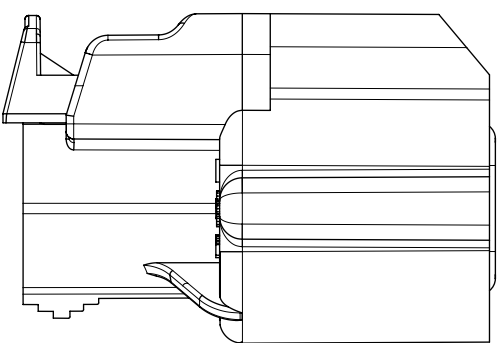
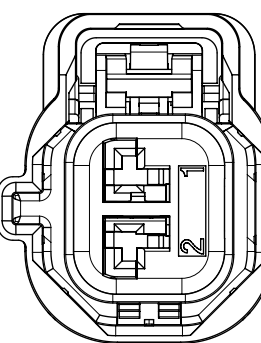
OPTION D



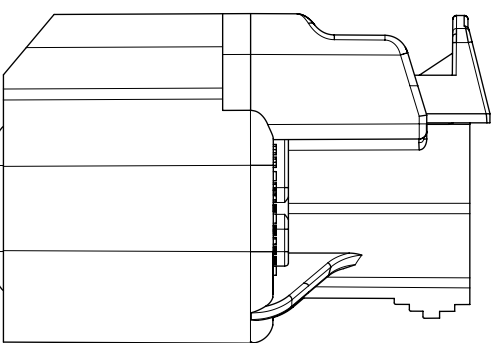
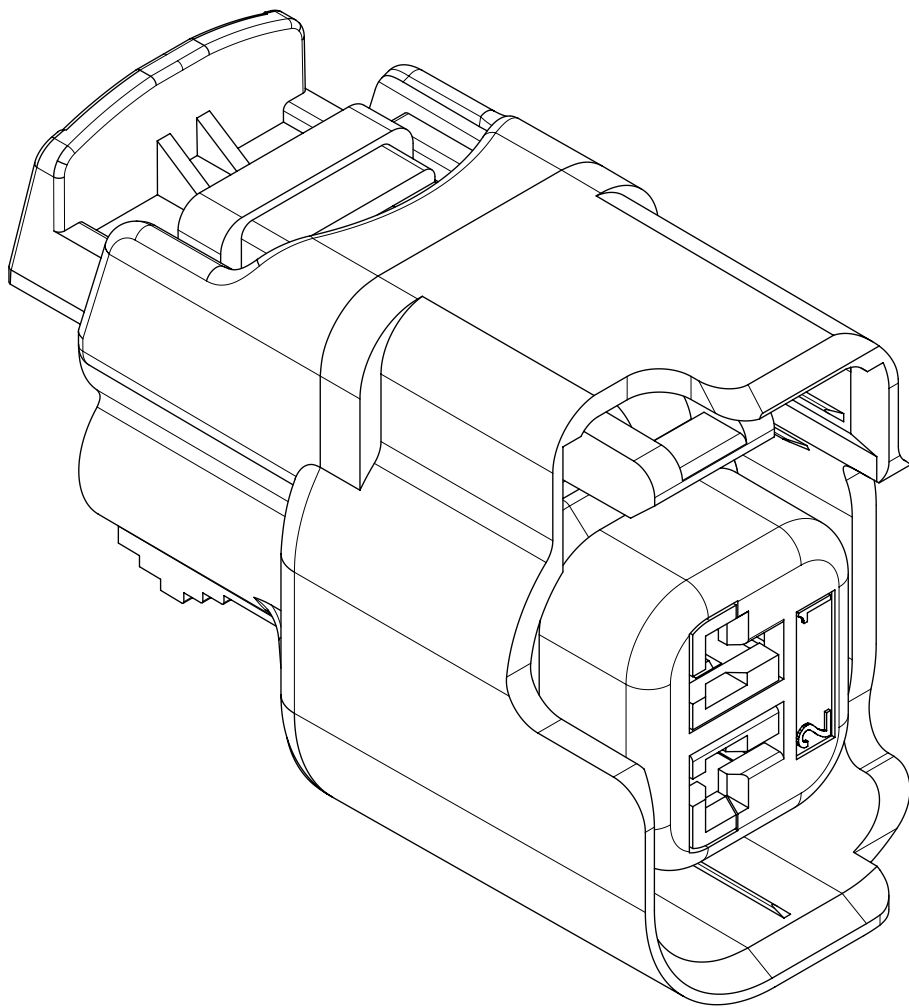
OPTION E



OPTION F



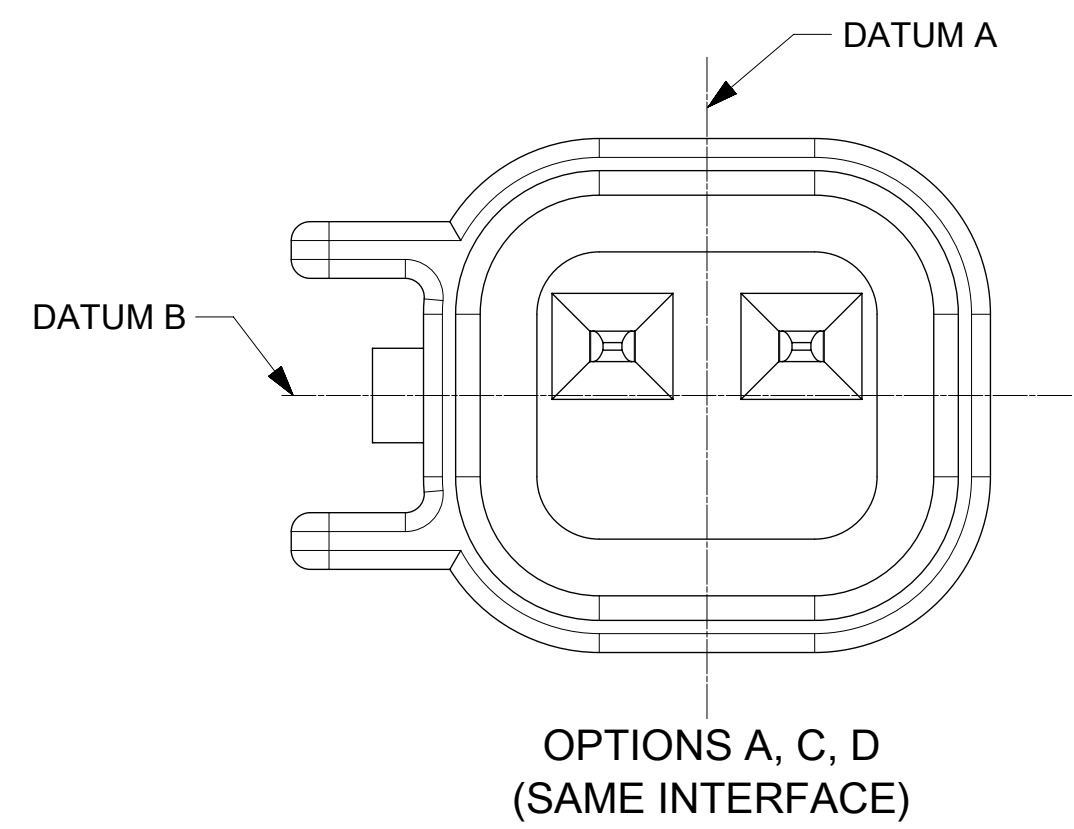
OPTION G



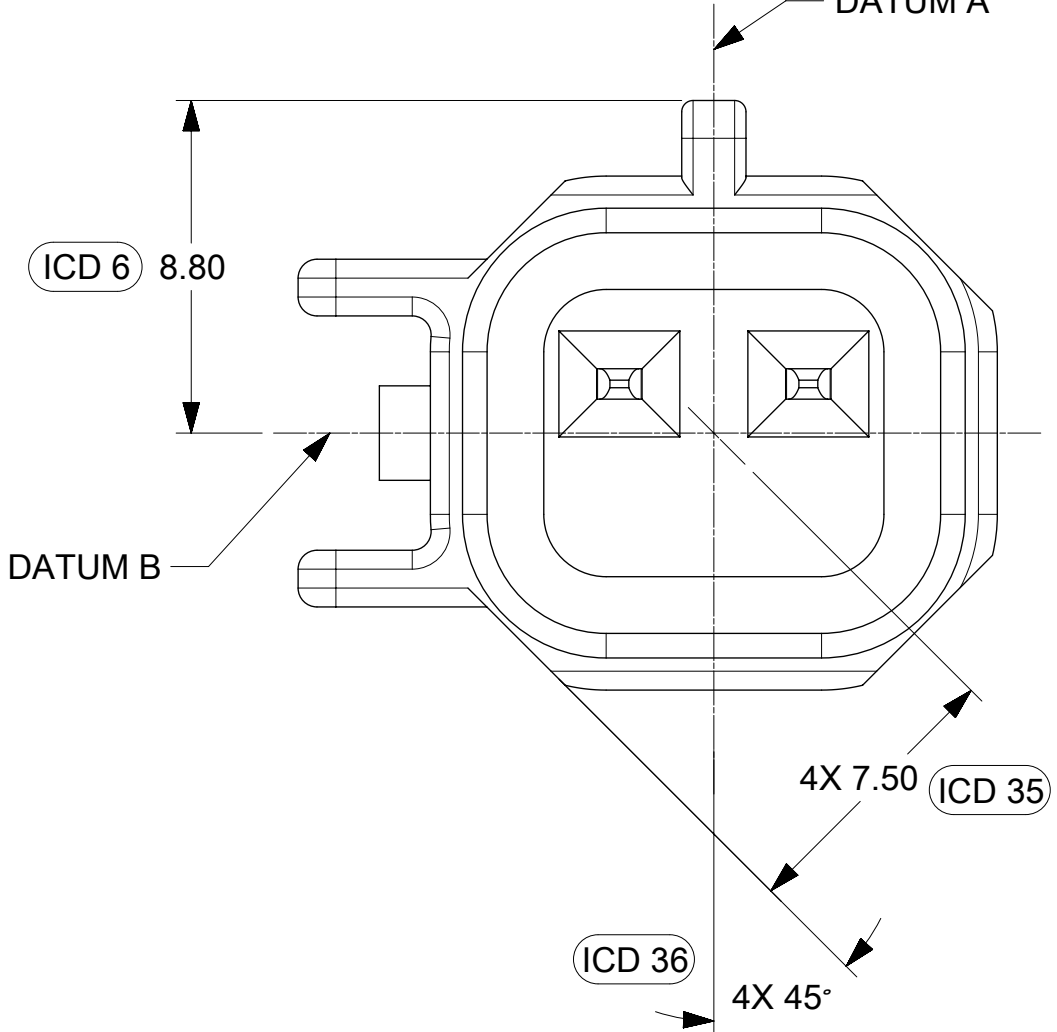
NON CLIP-SLOT OPTION
SCALE 4:1

QUALITY SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	=	0	2017/05/15 2017/06/14	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE													
	=	0			MM		2:1													
	=	0			ANGULAR TOL ± 3.0 °		DRWN BY		DATE		MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)									
	=	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		PRODUCT CUSTOMER DRAWING									
	=	0			0 PLACES ±		KDEKOSKI		2017/06/14											
	=	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		DOC TYPE		DOC PART		SHEET NUMBER	
J19					REV APPR: KDEKOSKI					SD-34062-002		PSD		000		2 OF 5				

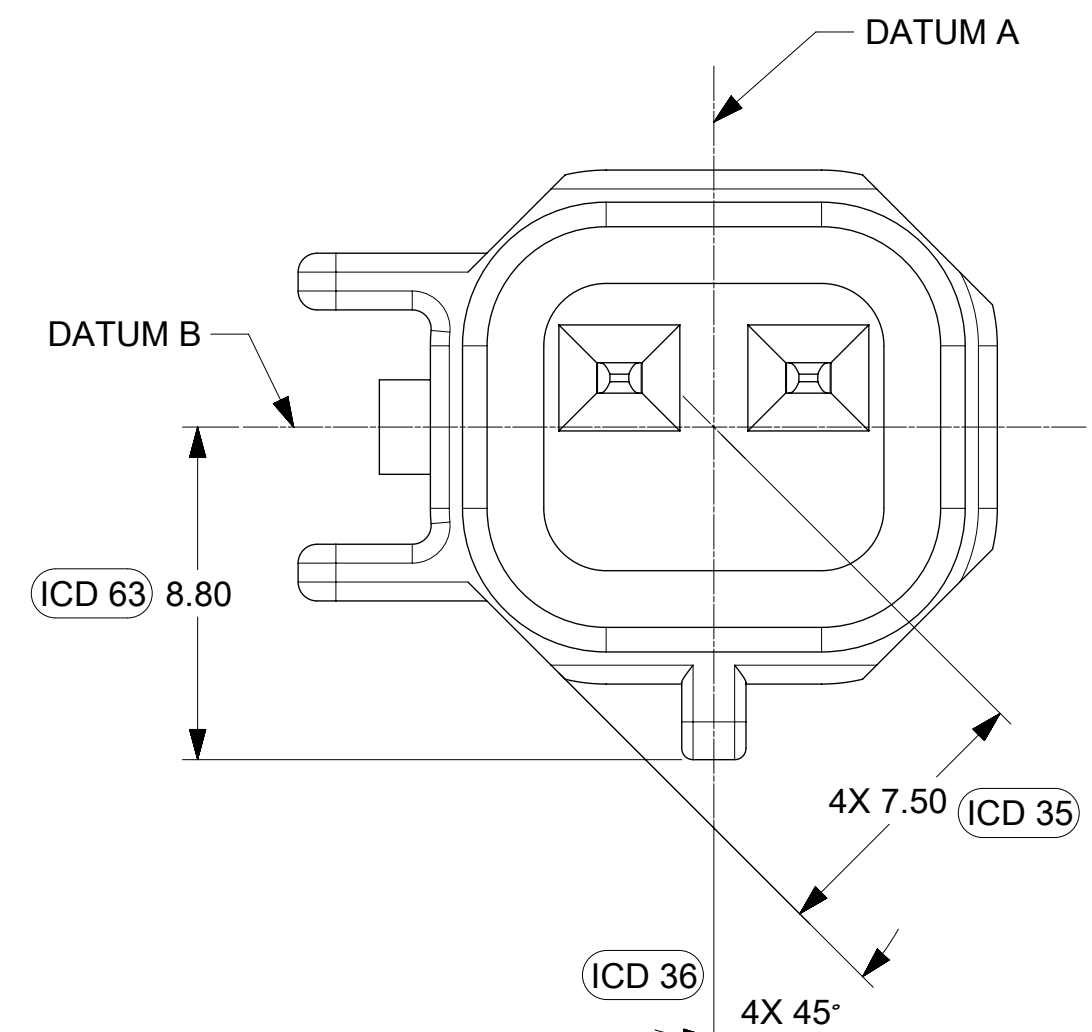
RELEASE STATUS	RELEASE DATE
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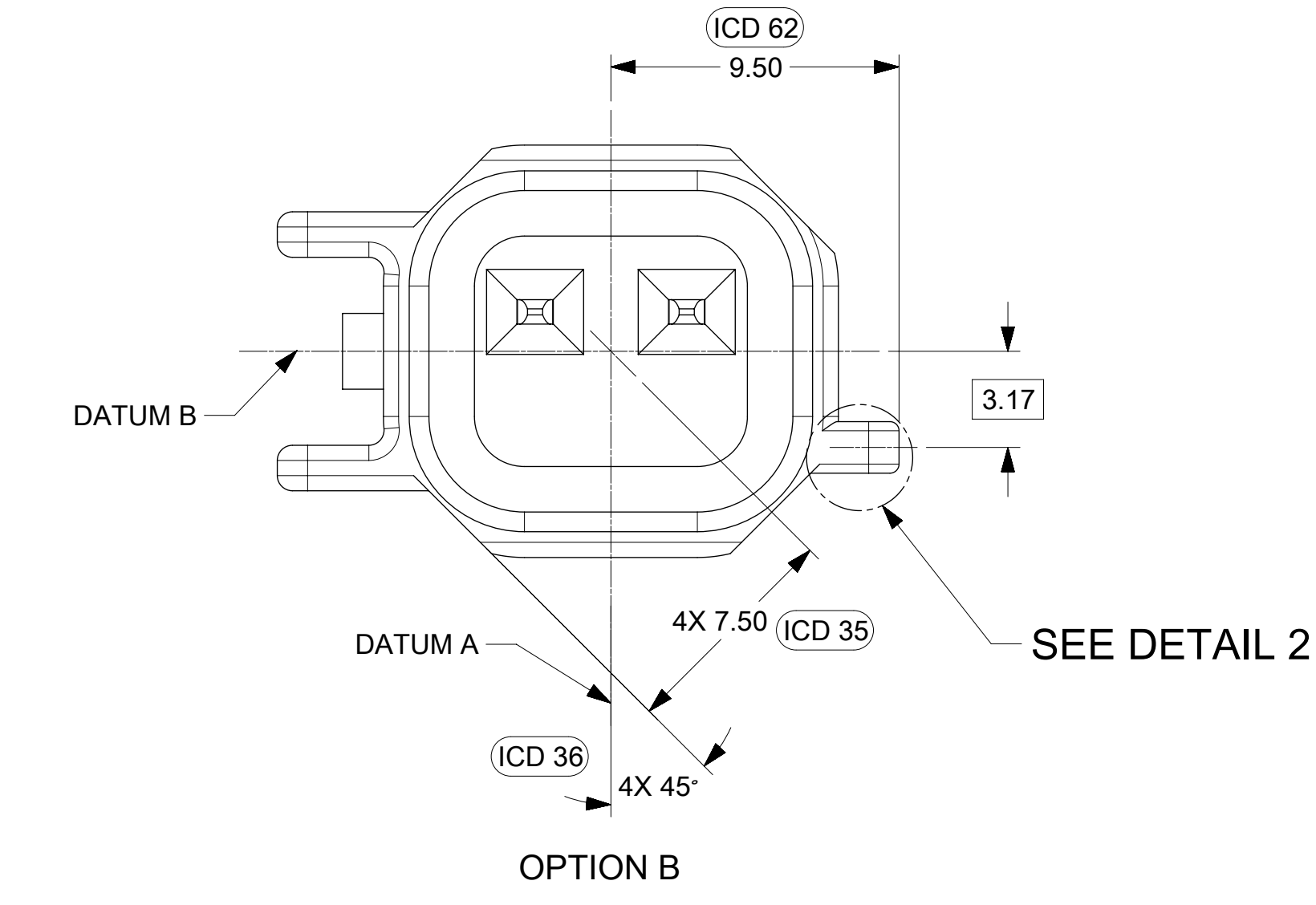
OPTIONS A, C, D
(SAME INTERFACE)



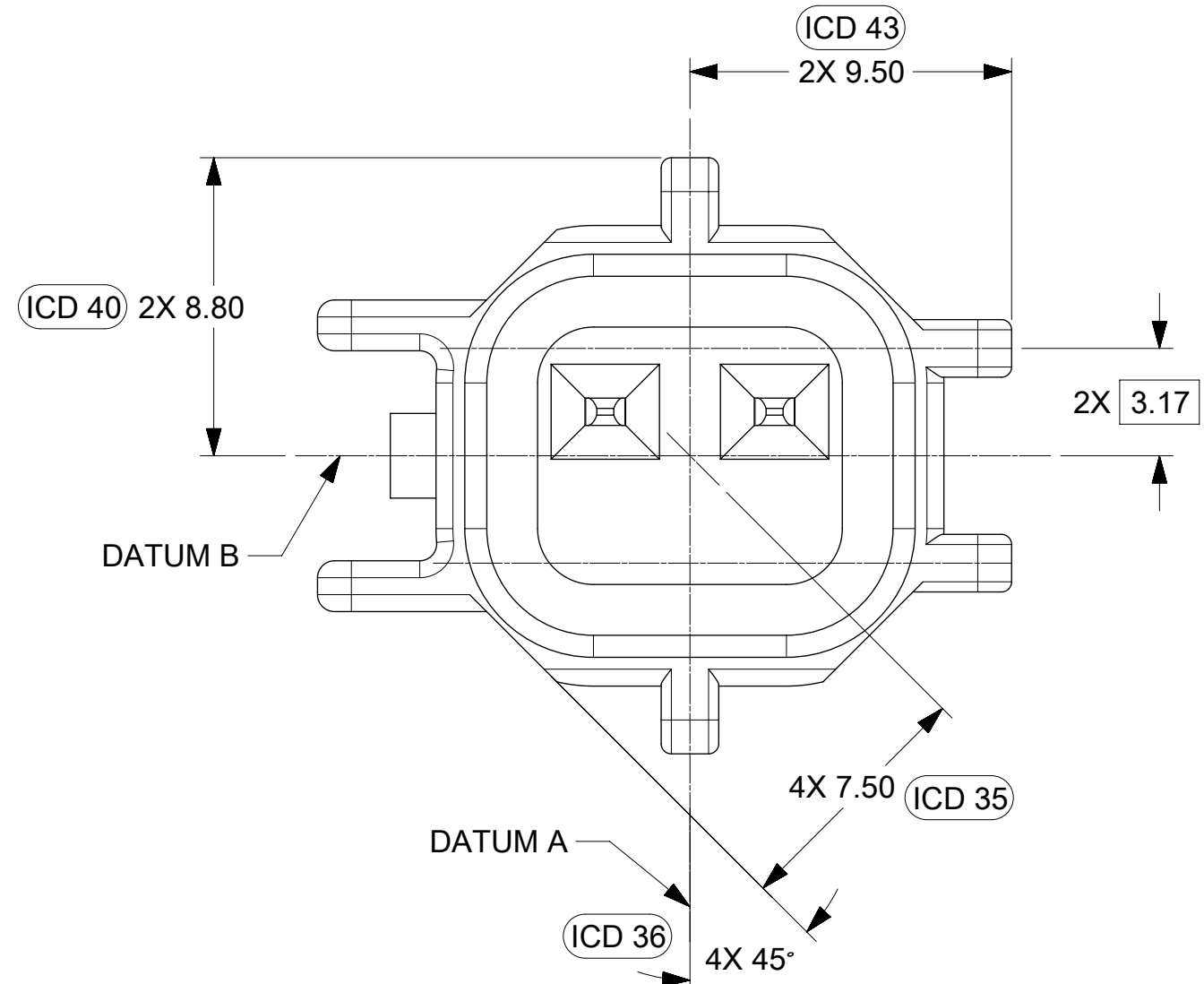
OPTION G



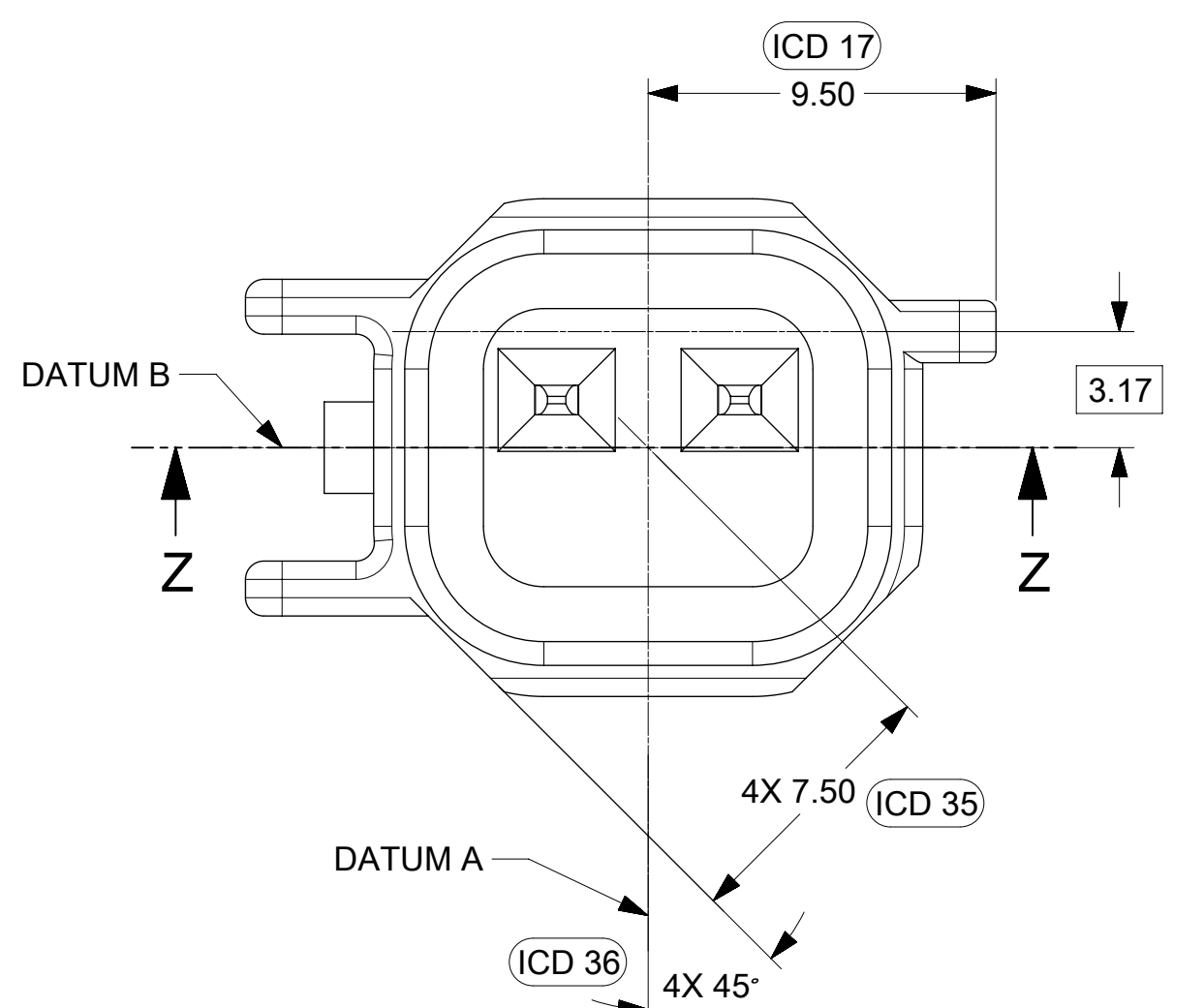
OPTION H



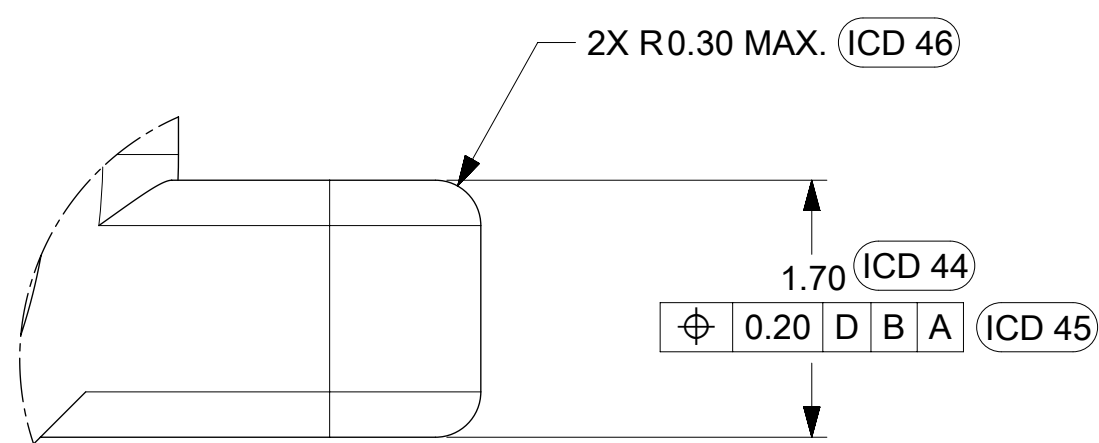
OPTION B



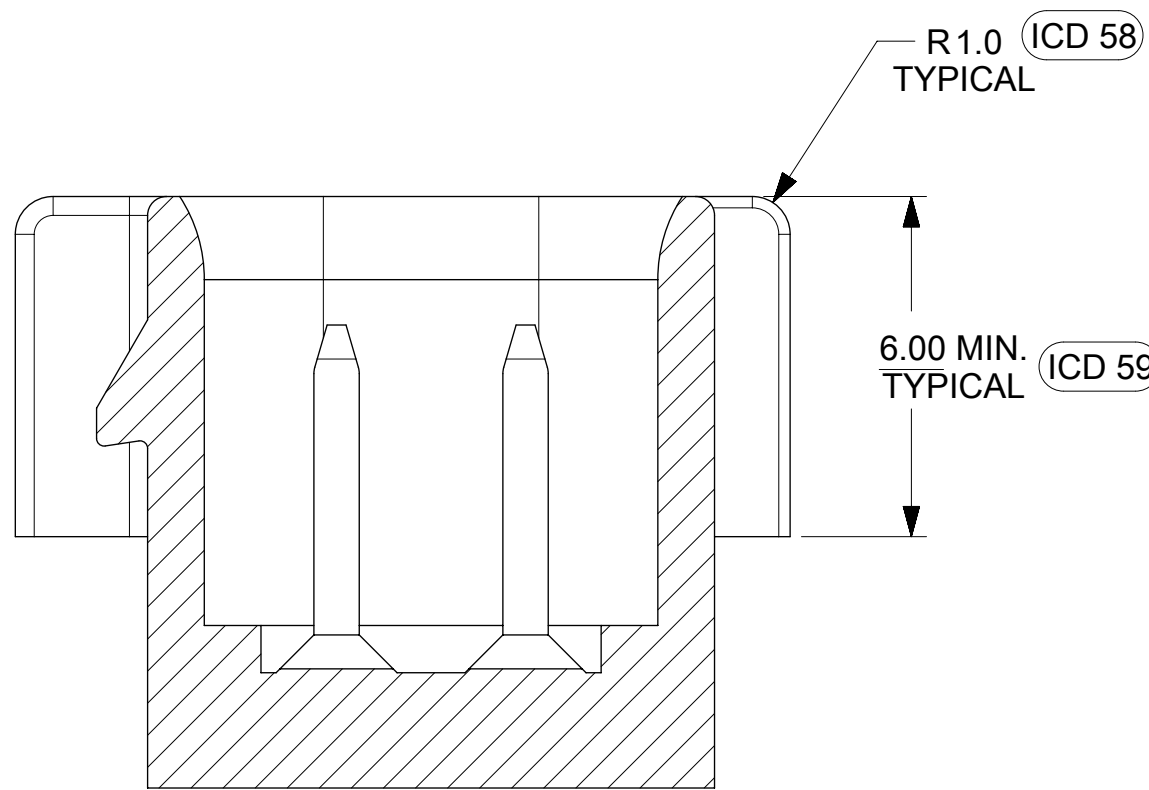
OPTION E



OPTION F

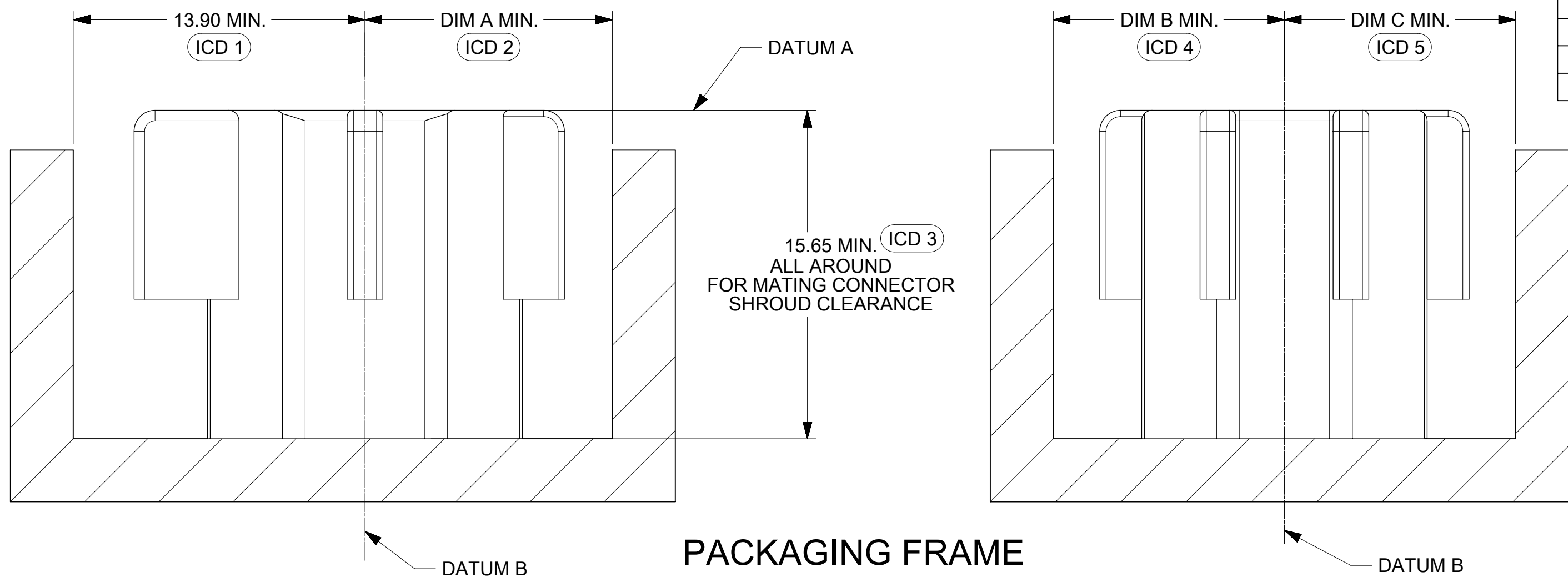


DETAIL 2
SCALE 20:1
TYPICAL
SEE KEYING OPTIONS VIEWS FOR POSITIONS



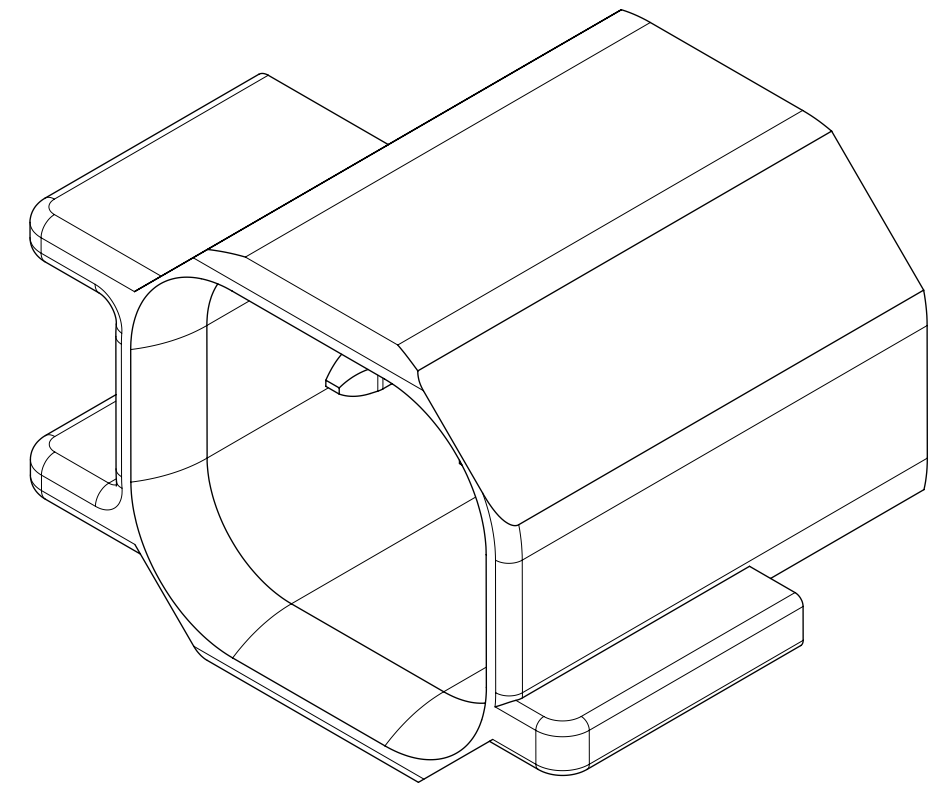
SECTION Z-Z
SEE KEYING OPTION VIEWS FOR POSITIONS

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

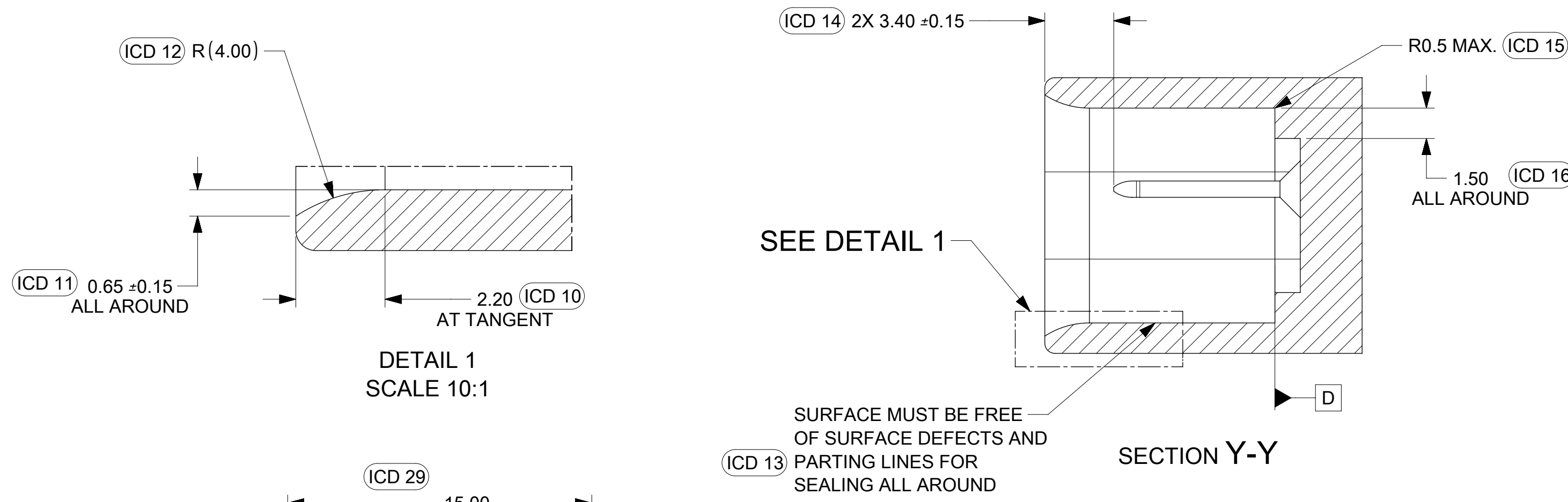


PACKAGING FRAME

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

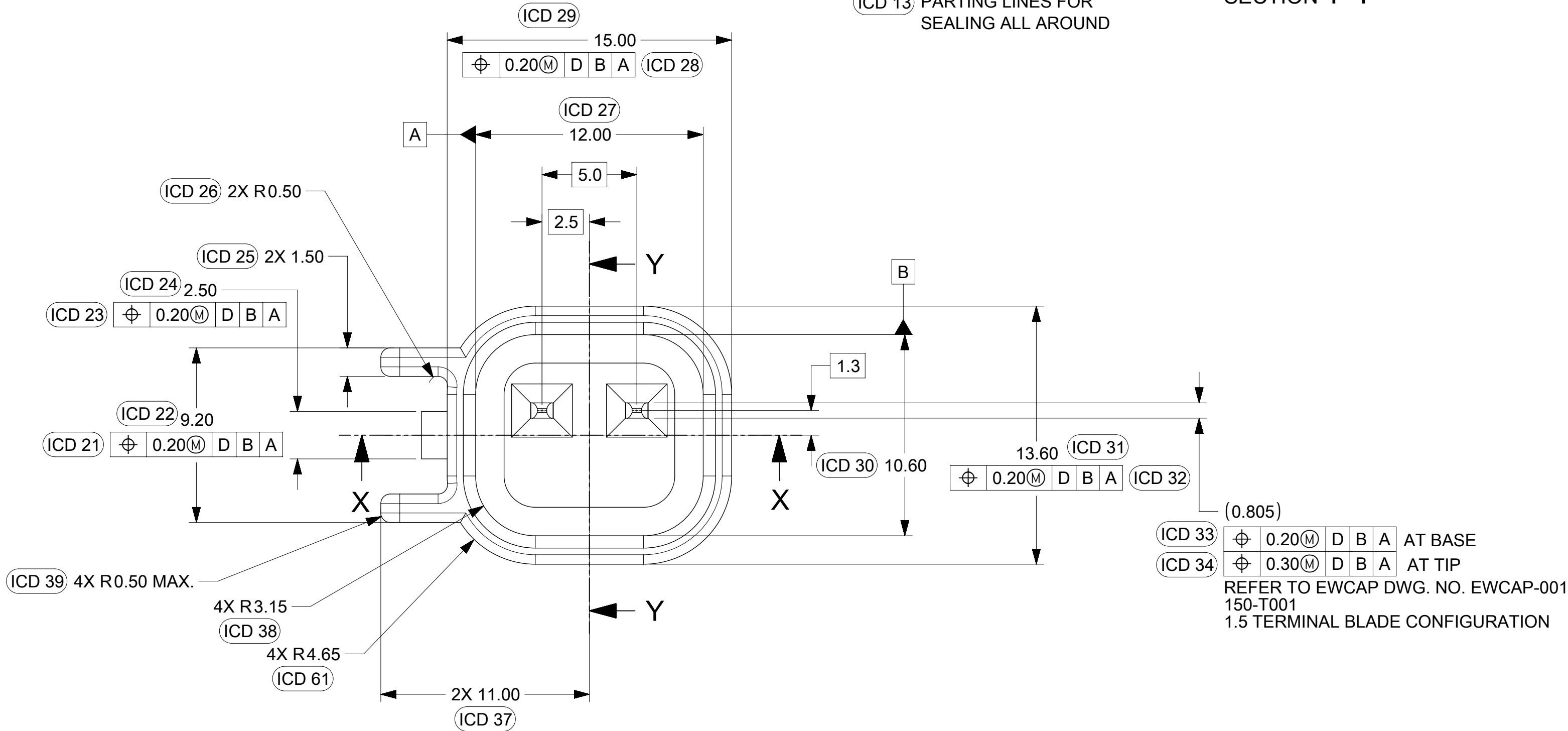
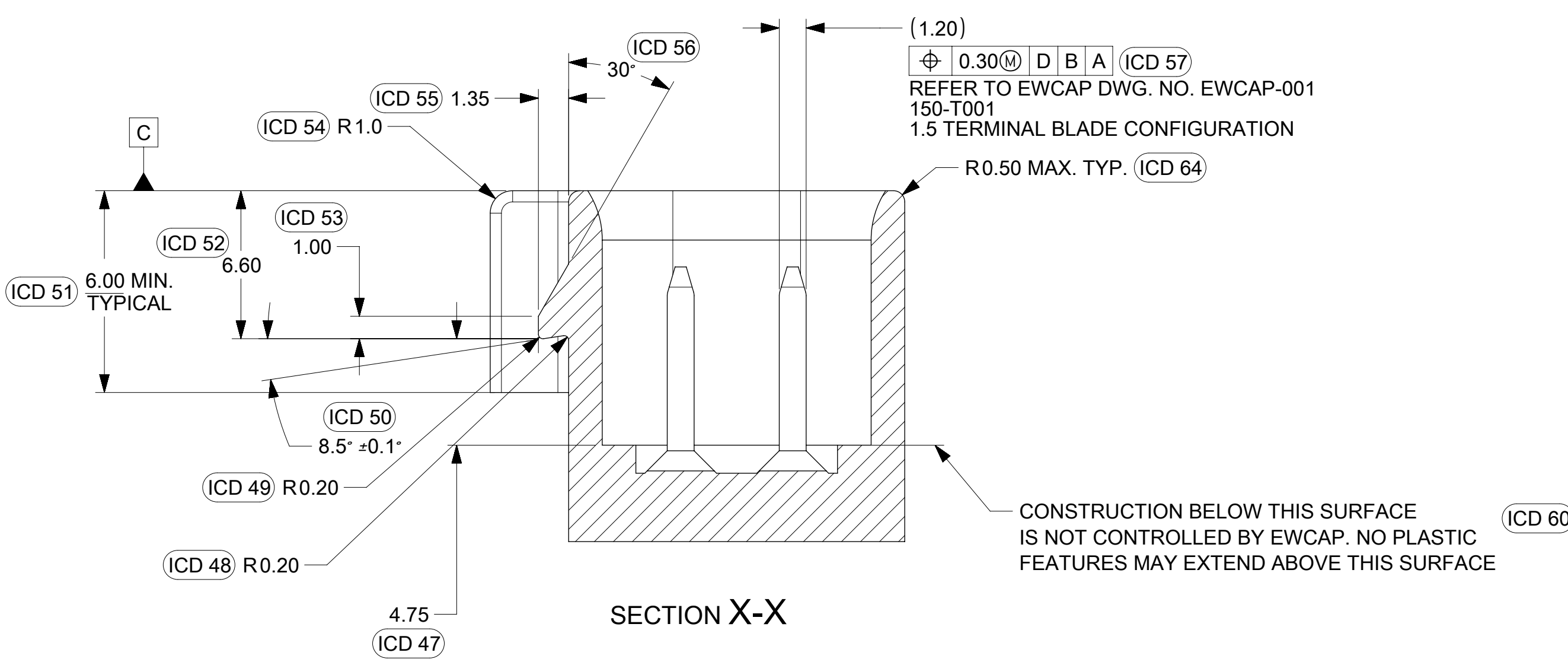


DETAIL 1
SCALE 10:1

SEE DETAIL 1

SURFACE MUST BE FREE
OF SURFACE DEFECTS AND
PARTING LINES FOR
SEALING ALL AROUND

SECTION Y-Y



SECTION X-X

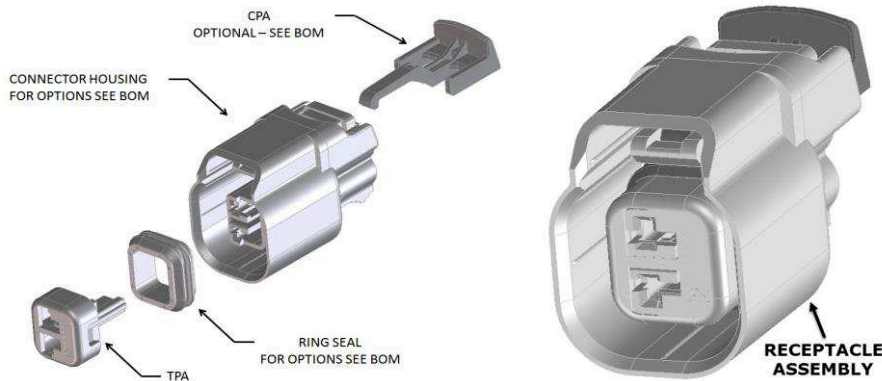
NOTES: UNLESS OTHERWISE SPECIFIED

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 DWG. NO. EWCAP-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 SCOOP 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.

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		

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: 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									
	= 0			4 PLACES ±		KCUNNINGHAM 2011/11/08									
	= 0			3 PLACES ±		CHK'D BY DATE		MX150 2 WAY CABLE SEAL RECEPTACLE CONN. SYSTEM (5.0MM PITCH)							
	= 0			2 PLACES ± 0.1		MVANSLAMBROU 1/26/2012									
	= 0			1 PLACE ± 0.3		APPR BY DATE		PRODUCT CUSTOMER DRAWING							
	= 0			0 PLACES ±		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	

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	3	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 E, 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	
OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/O CPA	34062-0052	B-LG-CLIP	TPA		R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, WITH CLIPSLOT, W/O CPA	34062-0053	C-BLK-CLIP	TPA		R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/ CPA	34062-0054	B-LG-CLIP	TPA	CPA	R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, WITH CLIPSLOT, W/ CPA	34062-0055	C-BLK-CLIP	TPA	CPA	R4	-40° C TO 155° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION C, BLACK, SEVERE VIBRATION, W/O CPA	34062-4003	C-BLK-SV	TPA		R4	-40° C TO 155° C	1	2		SALEABLE		
OPTION D, BLACK, SEVERE VIBRATION, W/O CPA	34062-4004	D-BLK-SV	TPA		R4	-40° C TO 155° C	1	2		SALEABLE		
OPTION D, BLACK, WITH CLIPSLOT, W/ CPA	34062-0056	D-BLK-CLIP	TPA	CPA	R4	-40° C TO 155° C	1	2		SALEABLE		
OPTION A, BLACK, WITH CLIPSLOT, W/ CPA	34062-0057	A-BLK-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, BLACK, W/O CPA	34062-0058	B-BLK	TPA		R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION B, BLACK, W/ CPA	34062-0059	B-BLK	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	
OPTION B, BLACK, WITH CLIPSLOT, W/O CPA	34062-0060	B-BLK-CLIP	TPA		R3	-40° C TO 125° C	1	2		SALEABLE		
OPTION B, BLACK, WITH CLIPSLOT, W/ CPA	34062-0061	B-BLK-CLIP	TPA	CPA	R3	-40° C TO 125° C	1	2	3	SALEABLE	PREFERRED, FULLY SHROUDED	