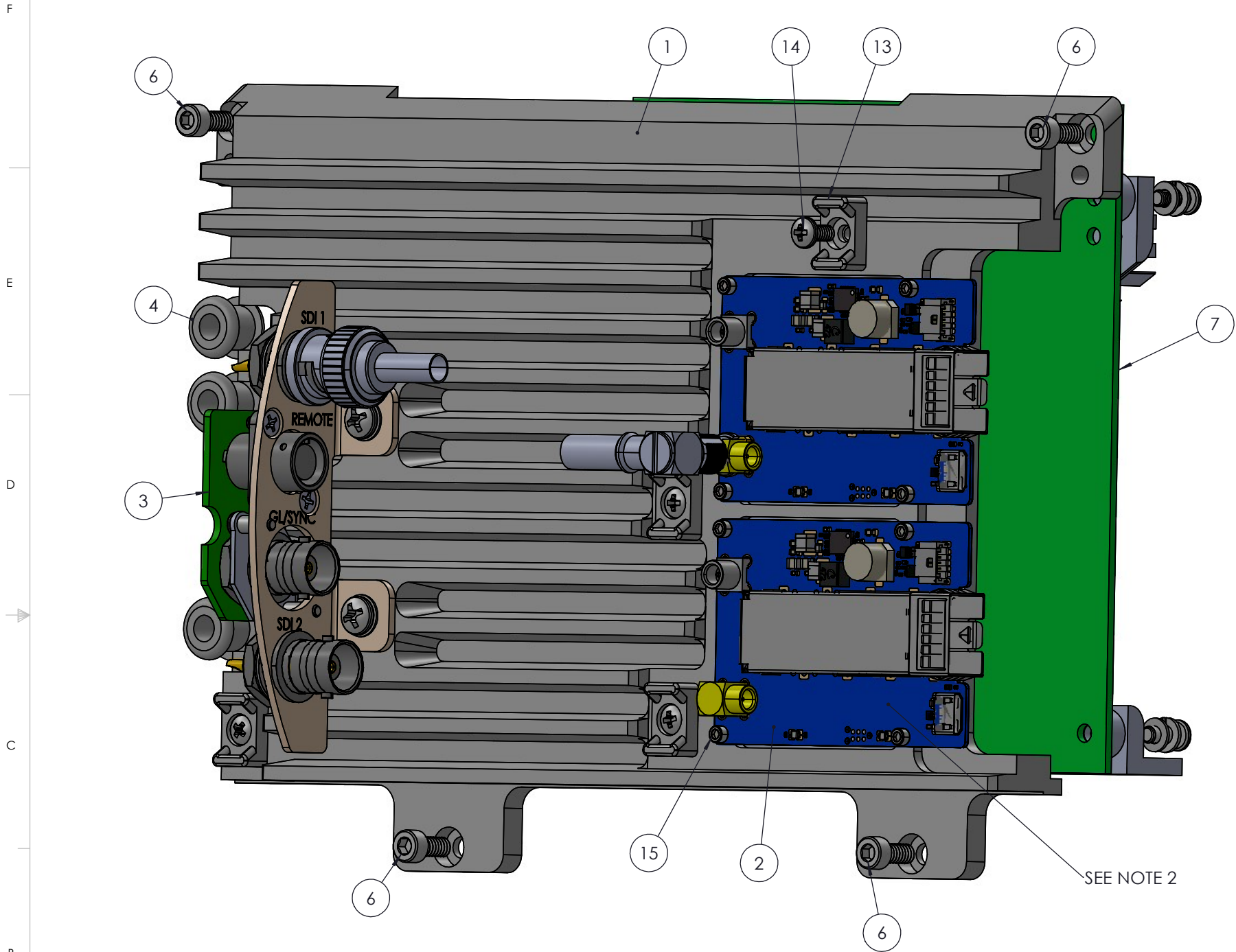


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



SEE NOTE 2

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment
\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-38-A_RightChassisPanelAssembly.SLDASM

NOTE 2. USE LOW OUTGASSING THERMAL PAD 33X38X3.0MM CUT FROM DIGIKEY PN TG-APC94-150-150-3.0-0 OR DSP&L PN 744-030-015-0A.

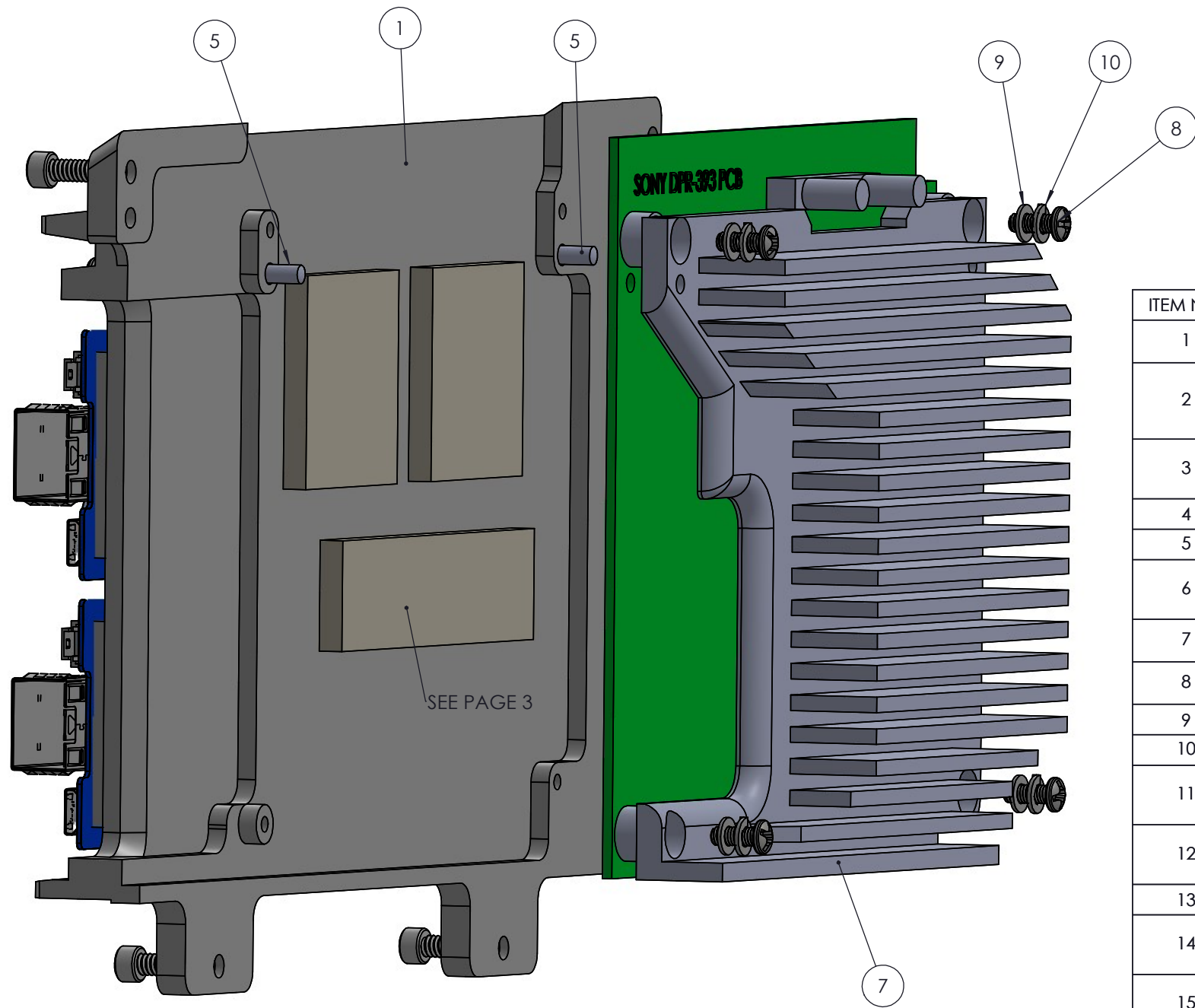
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ITEM NO.	PART NUMBER	DESCRIPTION	
1	100221414-37-A_RightChassisPanel	MBARI right chassis panel	1
2	DSP&L_744-030-013-0A_Assy_Standalone-SFP_w_no_Heatsink_Rev01_20191223_a	see electrical design	2
3	100221414-27-A_RightConnectorBracket_Assembly	Right connector bracket assembly	1
4	9307K37	0.1875_I.D._RubberGrommet	3
5	91595A112	M3x12mm_AlloySteelDowelPin	2
6	92185A145	#6-32x0.3125_316_SocketHeadCapScrew	4
7	Sony_DPR-393_PCB&Heatsink	Sony camera parts	1
8	94102A103	M3-0.5x8mm_18-8_JIS_PhillipsPanHeadMachineScrew	4
9	98690A110	M3_316_FlatWasher	4
10	92153A416	M3_316_SplitLockWasher	4
11	100221414-47-A_ThermalPad_4mmx34x34	Thermal pad cut from DigikeyPN_1168-2209-ND	2
12	100221414-47-C_ThermalPad_4mmx18x72	Thermal pad cut from DigikeyPN_1168-2209-ND	1
13	1873N51	#4_FlameRetardantCableMount	4
14	91735A102	#4-40x0.250_316_PanHeadPhilipsMachineScrew	4
15	91864A007	#1-72x0.1875_AlloyBlackOxideSocketScrew	8
16	Amphenol_Straight_HDBNCJack_034-1024	MarkCustomPartTemplate	1
17	Amphenol_RA_HDBNCPlug_34-1118-12G	Amphenol right angle HDBNCPlug PN 34-1118-12G	1
18	Amphenol_BNC_31-70537-12G	Amphenol 12G BNC Connector PN 31-70537-12G	1

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	01/19/2021
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER MARK R. CHAFFEY (831) 775-1708 mrcma@mbari.org	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700
Engineer						PROJECT No. 902001	4K CAMERA RIGHT CHASSIS PANEL ASSEMBLY
NEXT ASSY Description	NEXT ASSY Number					PROJECT Name 4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SIZE C	DWG. NO. 100221414-38-A-ASM
						SCALE	CAD FILE:
						REV. A	
						SHEET 1 OF 3	



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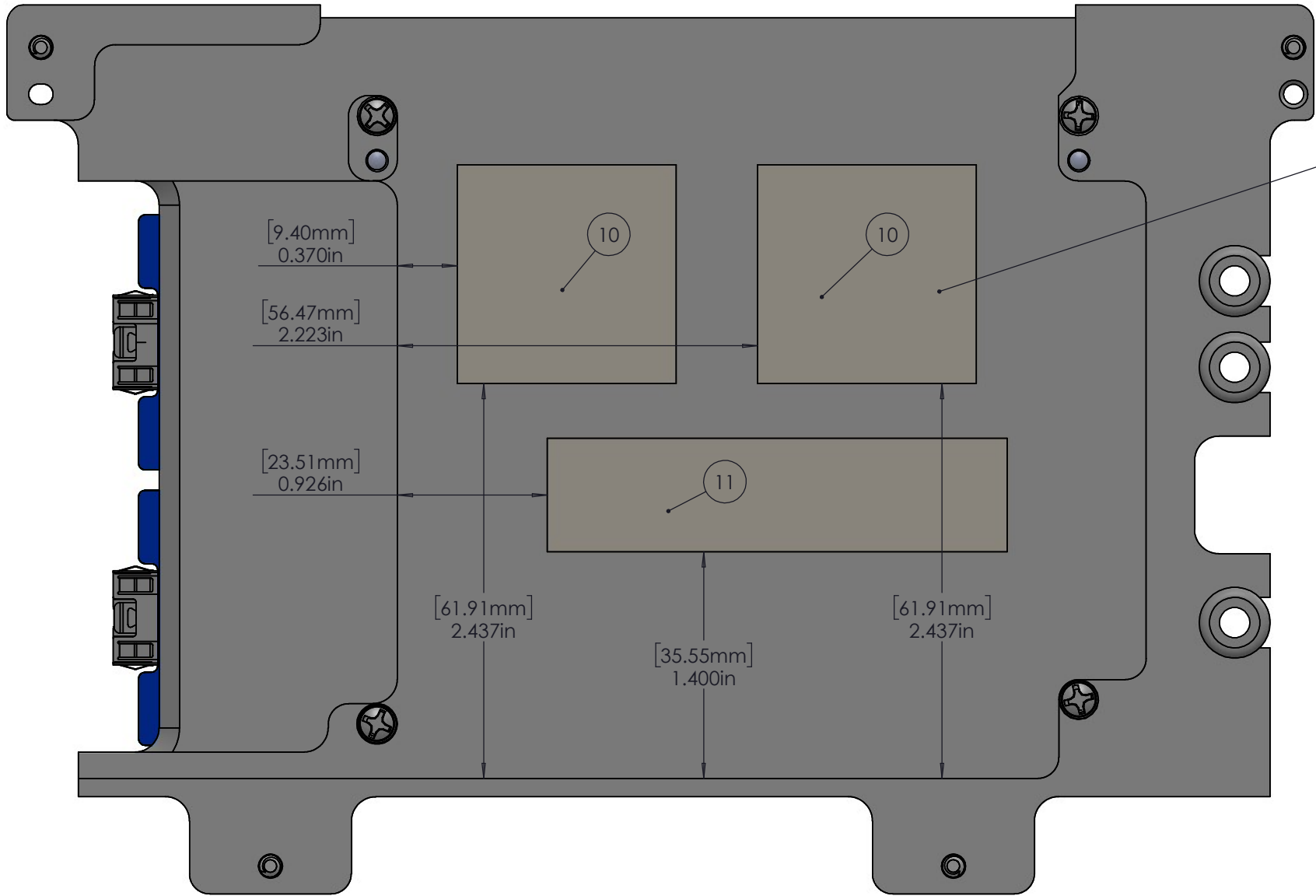
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14	91735A102	#4-40x0.250_316_PanHeadPhilipsMachineScrew	4
15	91864A007	#1-72x0.1875_AlloyBlackOxideSocketScrew	8
16	Amphenol_Straight_HDBNCJack_034-1024	MarkCustomPartTemplate	1
17	Amphenol_RA_HDBNCPlug_34-1118-12G	Amphenol right angle HDBNCPlug PN 34-1118-12G	1
18	Amphenol_BNC_31-70537-12G	Amphenol 12G BNC Connector PN 31-70537-12G	1

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.003	ANGLE ±.005	DRAWN MRC		01/19/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET RADI .015-.020. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER			
Engineer						MARK R. CHAFFEY			
						(831) 775-1708			
						chm@mbari.org			
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.		902001	
						PROJECT Name		4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING				WEIGHT			
						SIZE C	DWG. NO.	100221414-38-A-ASM	REV. A
						SCALE	CAD FILE:		SHEET 2 OF 3



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THERMAL PAD LOCATIONS - RIGHT CHASSIS PANEL

ASSEMBLY NOTE #1:

DURING ASSEMBLY, THE SPECIFIED HEATSINK MATERIAL WAS FOUND TO BE TOO STIFF AND HAD THE POTENTIAL TO OVER-STRESS THE SONY PCB. THE SONY HEATSINK PADS IN THE STOCK CAMERA CHASSIS WERE CAREFULLY PEELED OFF AND SUBSTITUTED UNTIL PROPER DENSITY MATERIAL COULD BE SPECIFIED.

PREFERRED USE LOW OUTGASSING MATERIAL. POSSIBLE SUBSTITUTE DIGIKEY PN 1168-TG-APC94-150-150-3.0-0-ND.

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Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.003	DRAWN MRC		01/19/2021
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIUS .015-.020. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			ENGINEER		
Engineer					MARK R. CHAFFEY		
					(831) 775-1708		
					chm@mbari.org		
NEXT ASSY Description	NEXT ASSY Number				PROJECT No.	902001	
					PROJECT Name	4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING			WEIGHT		
					SIZE C	DWG. NO. 100221414-38-A-ASM	REV. A
					SCALE	CAD FILE:	SHEET 3 OF 3

