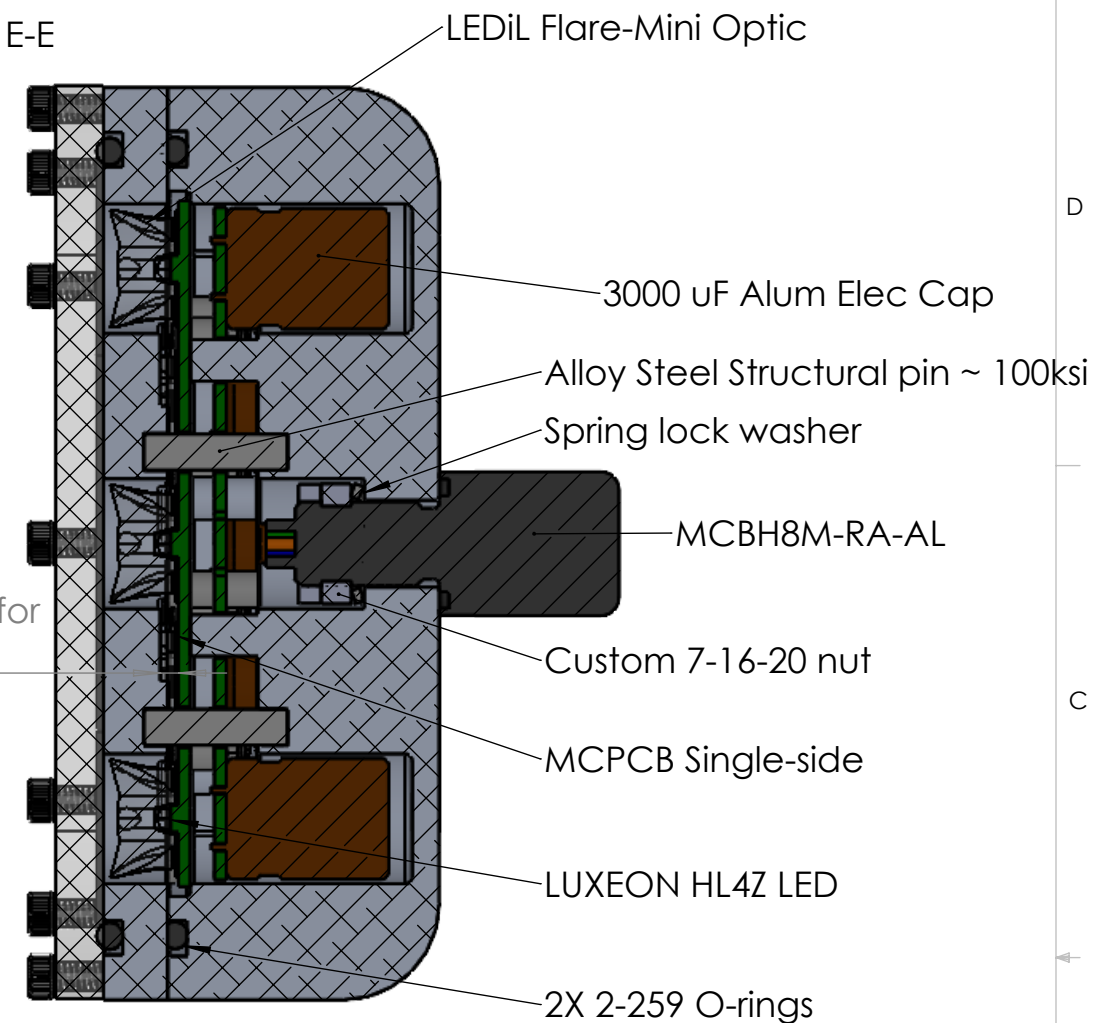


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

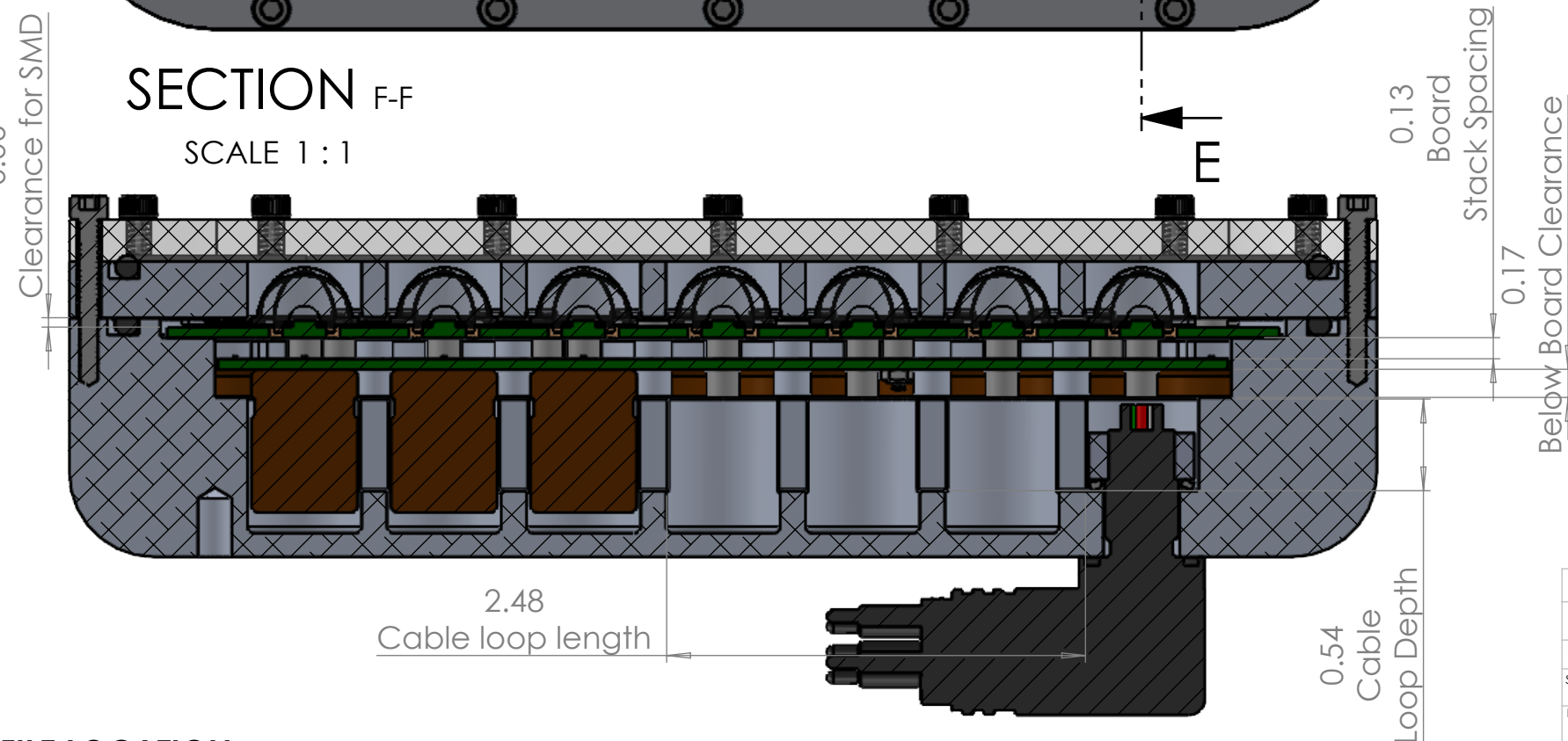
SECTION E-E

SCALE 1 : 1



SECTION F-F

SCALE 1 : 1



NOTES:

- 35 LUXEON HL4Z or HL4X LEDs
- 64 deg. x 10 deg beam in water
- Total Lumen output during flash ~ 36,000 lumen
- Estimated irradiance at 2m range ~ 20,000 lux
- Power draw during flash ~ 375 W
- Average power at 60 Hz, 4 ms flash ~ 90 W
- No DC/DC in strobe, include current limiter for < 100 W max power draw
- One single-side MCPCB for LED and optics, one FR4 PCB for caps and control
- 6-32 screws secure both LED and interface PCB
- 30X 3000 uF caps
- 35 steel pins transfer load from front to rear port
- PCB and LEDs/optics are isolated from forces
- Safe Working Depth = 1500 m

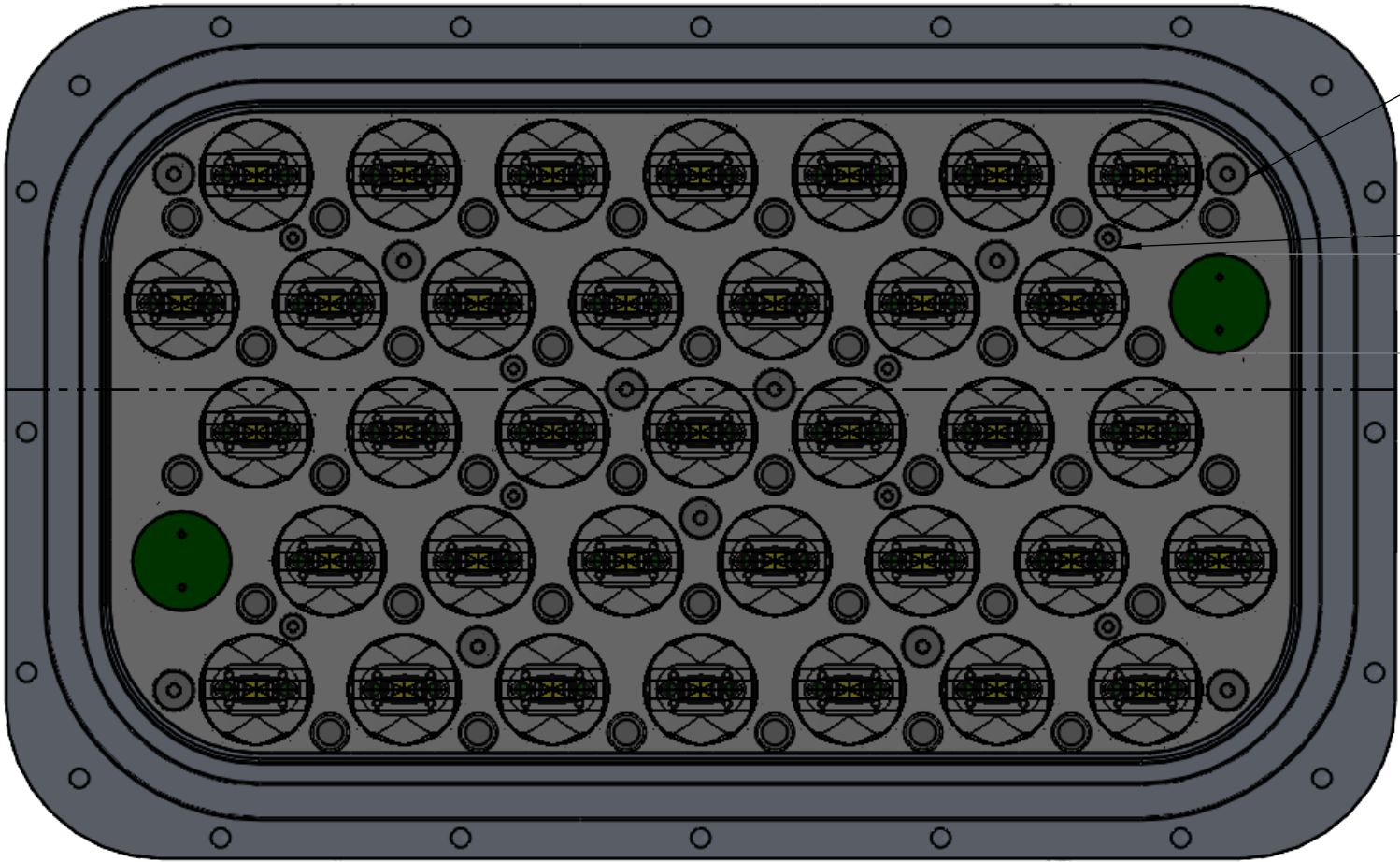
BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	DRAWN	P. Roberts	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER	P. ROBERTS	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED	P. ROBERTS	
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.	902204.00	
		4. MACHINED FILLET RADII .0150-.030.				PROJECT	CoMPAS	HSILEDPUck-RevB
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT		SIZE B
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				SCALE		DWG. NO.
Application		DO NOT SCALE DRAWING				SHEET 1 OF 2		

FILE LOCATION:

\\ATLAS\PROJECTLIBRARY\902204_COMPAS\ME.DRAWINGS\HSILI
GHTING\
HSILEDPUCK-REVC

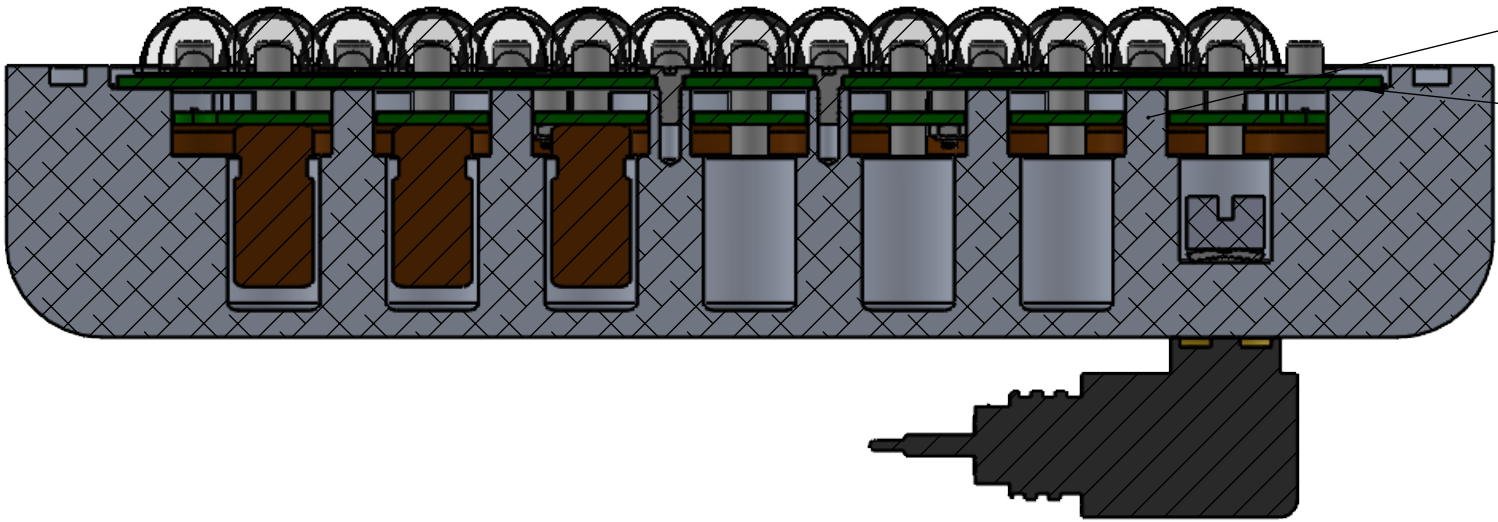
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.



8X 6-32 Ultra-low-profile screws clamp MCPCB to bottom plate

8X 2-56 Screws clamp boards together with spacer and nut

2X Ø0.55
connection between PCBs



5.5 mm posts to couple heat from MCPCB to chassis
~ 6 cm² surface area

MCPCB rests on rim of pocket, ~ 25 cm² surface area

FILE LOCATION:
\\ATLAS\PROJECTLIBRARY\902204_COMPAS\ME.DRAWINGS\HSI
GHTING\HSILEDPUCK8REVC

SECTION G-G
SCALE 1:1

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN P. Roberts			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 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 P. ROBERTS			
Engineer						CHECKED P. ROBERTS			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 702108.99		HSILEDPUck-RevB	
						PROJECT DeployableAI			
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO.
								SCALE	REV.
									SHEET 2 OF 2