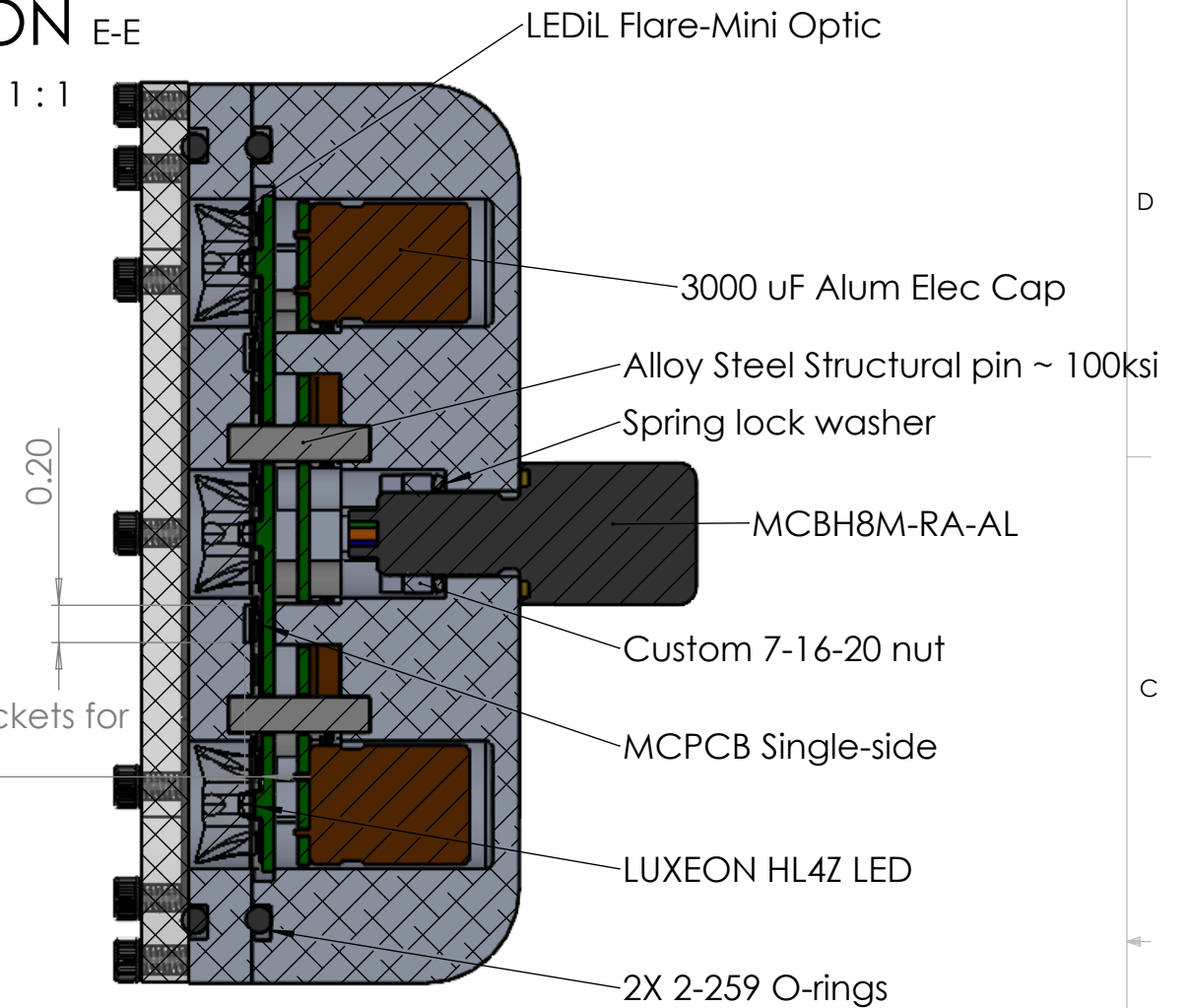


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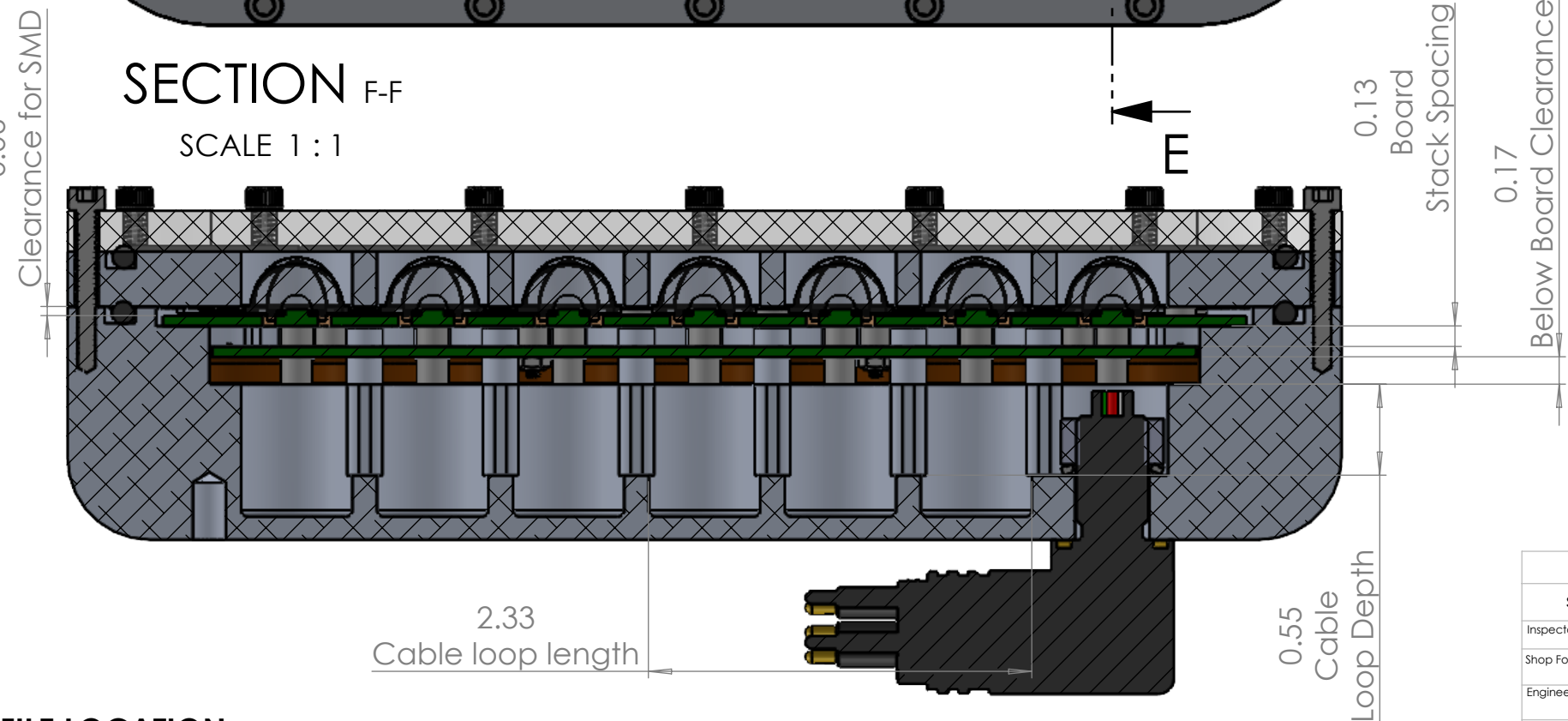
SECTION E-E

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

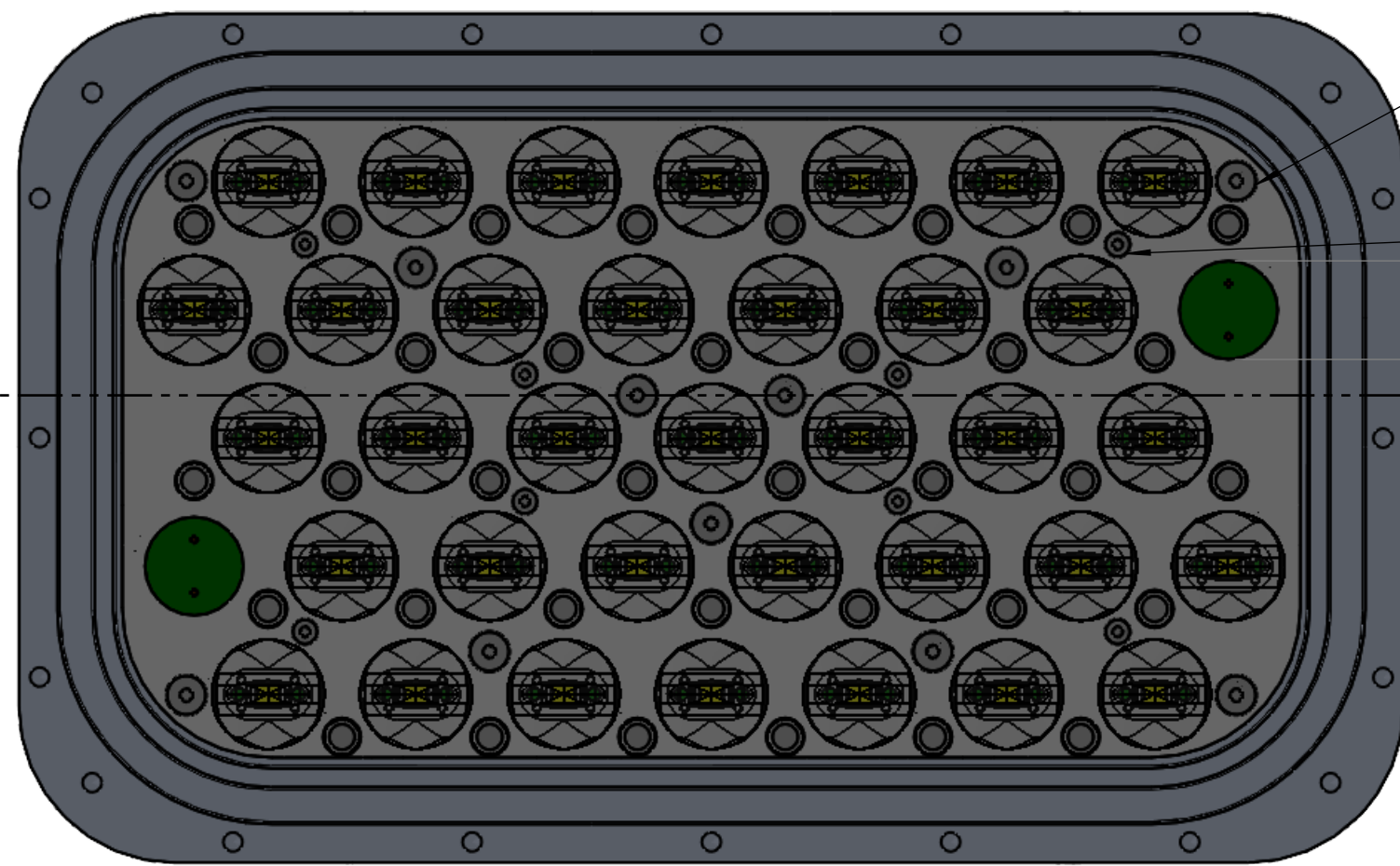
BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN P. Roberts		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
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	HSILEDPUck-RevC		
		4. MACHINED FILLET RADII .0150-.030.				PROJECT	CoMPAS			
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT		SIZE B	DWG. NO.	REV.
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.						SCALE		SHEET 1 OF 2
Application		DO NOT SCALE DRAWING								

FILE LOCATION:

\\Atlas\projectlibrary\902204_CoMPAS\ME.Drawings\HSILighting\HSILEDPUck-RevC

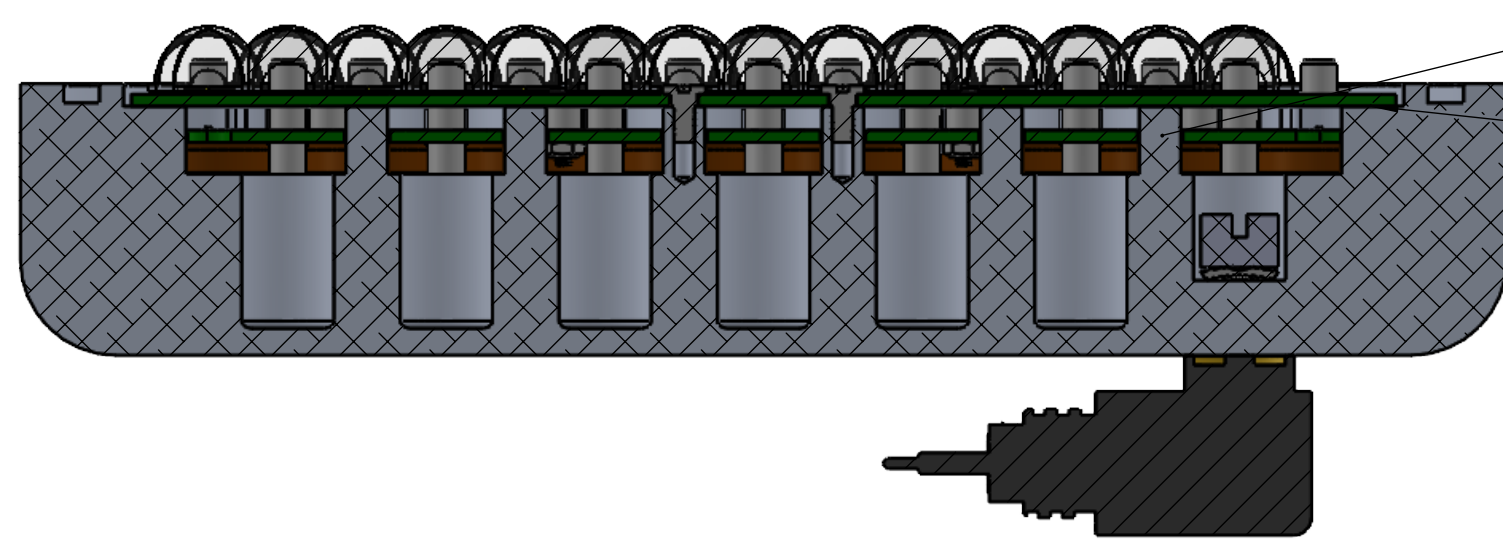
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8X 6-32 Ultra-low-profile screws clamp MCPCB to bottom plate

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 cm^2 surface area

MCPCB rests on rim of pocket, ~ 25 cm^2 surface area

FILE LOCATION:

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SECTION G-G

SCALE 1:1

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN P. Roberts		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
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. 902204.00				
						PROJECT CoMPAS		HSILEDPuck-RevC		
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO.	REV.
								SCALE		SHEET 2 OF 2