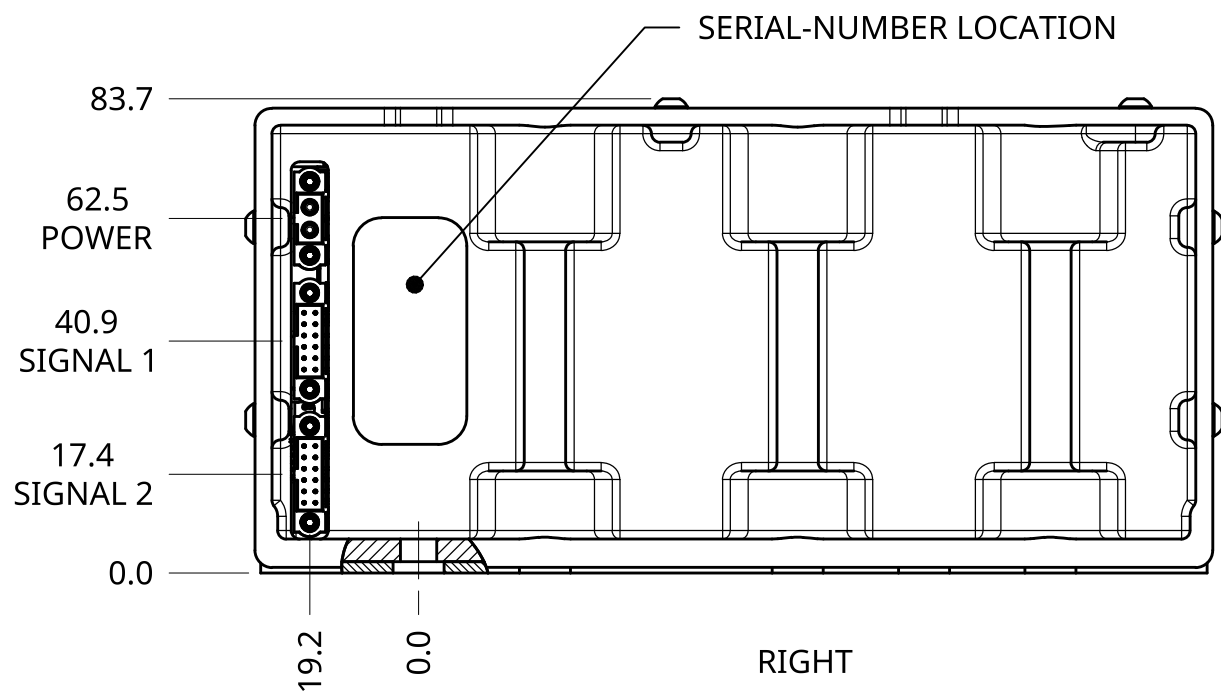
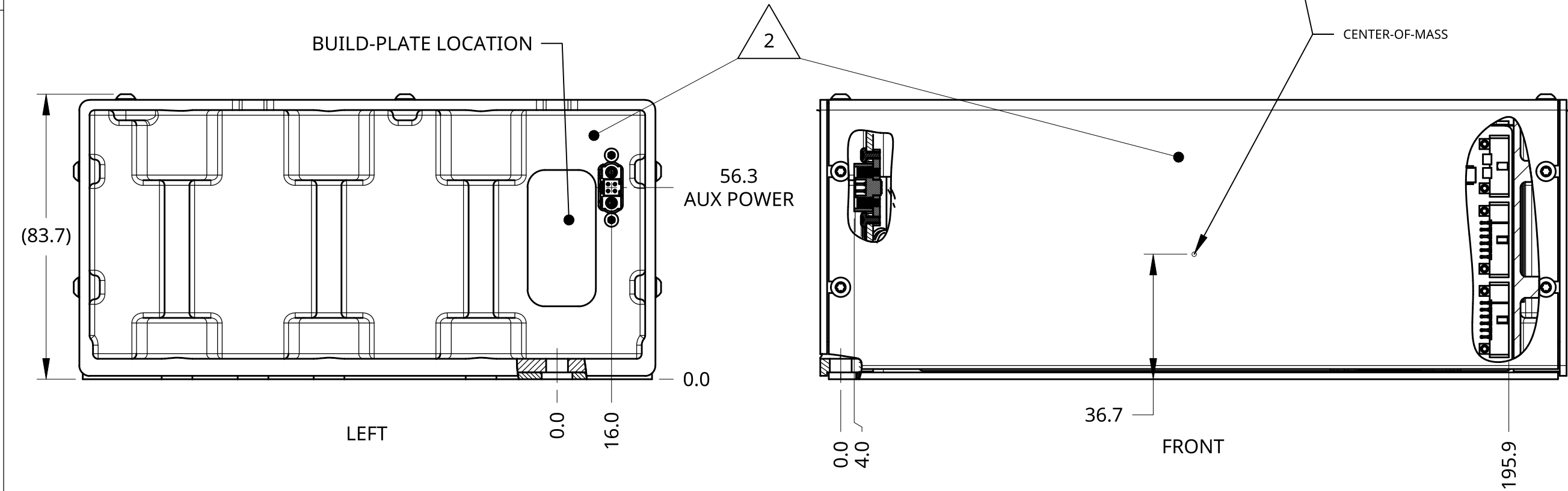
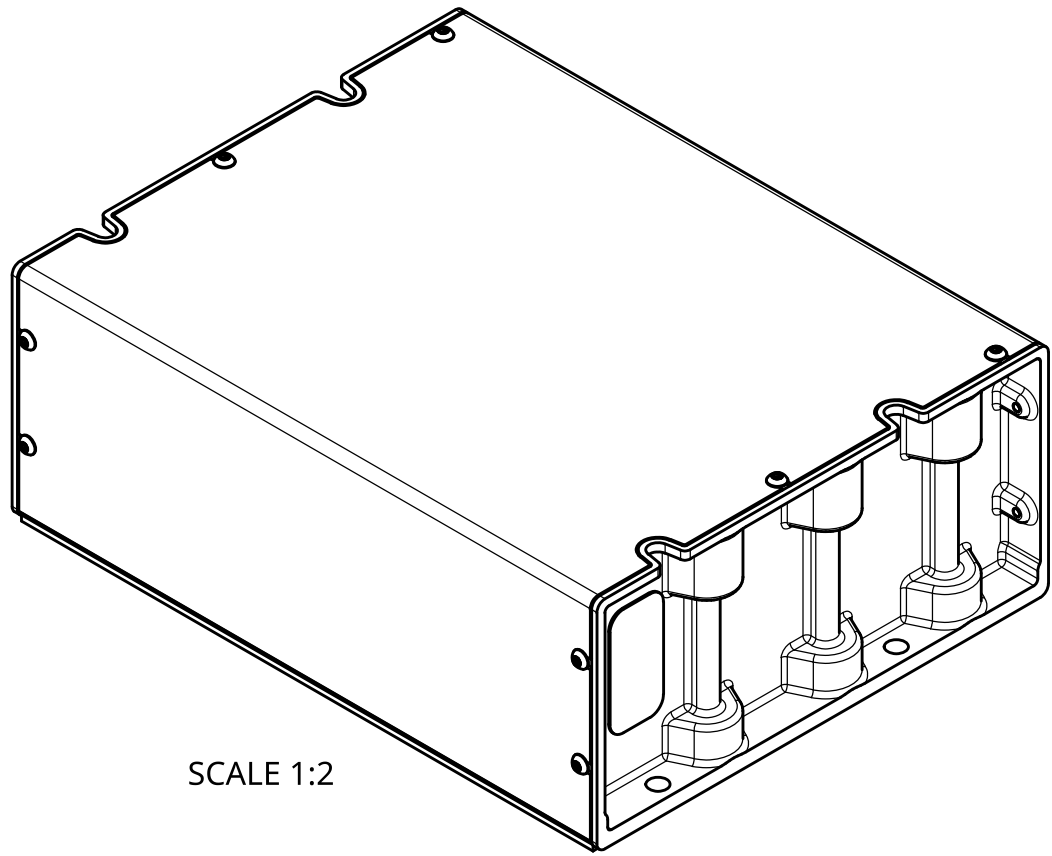
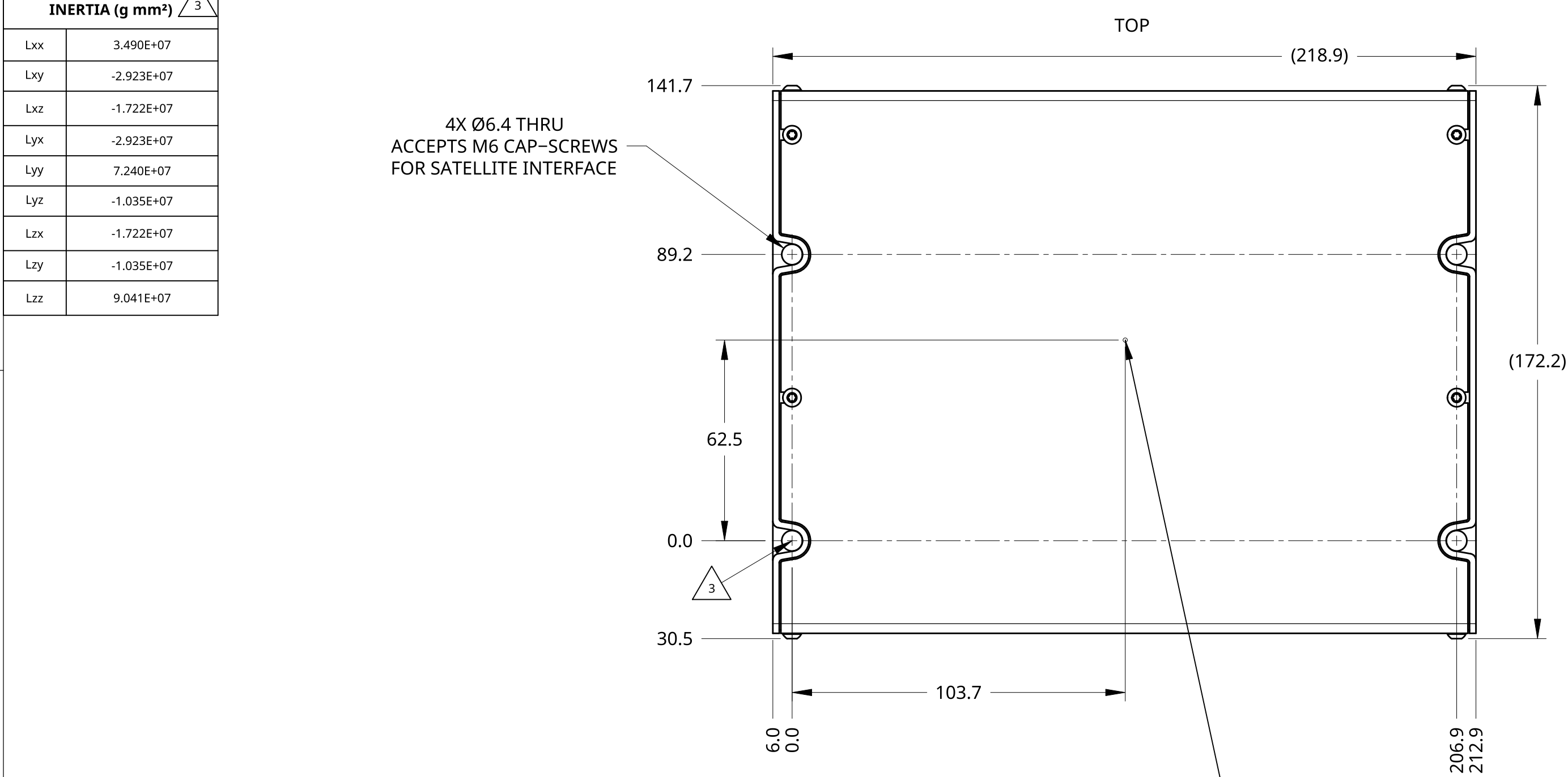


MASS MOMENTS OF INERTIA (g mm ²) ³	
Lxx	3.490E+07
Lxy	-2.923E+07
Lxz	-1.722E+07
Lyx	-2.923E+07
Lyy	7.240E+07
Lyz	-1.035E+07
Lzx	-1.722E+07
Lzy	-1.035E+07
Lzz	9.041E+07



OUTPUT CONNECTORS		
CONNECTOR	BOARD HEADER TYPE	MATING CONNECTOR TYPE
POWER	HARWIN M80-5000000M5-02-PM3-00-00	HARWIN M80-4000000F1-02-PF5-00-000
SIGNAL1	HARWIN M80-5401205	HARWIN M80-4801205
SIGNAL2	HARWIN M80-5401205	HARWIN M80-4801205
AUX POWER	HARWIN M80-5C10405MU	HARWIN M80-4800405

STYLE CODE DESIGNATIONS	
10000070-04-00	EXTERNAL BLACK ANODISED FINISH
10000070-04-01	EXTERNAL CHEMFILM FINISH

REVISIONS			
Revision	Revision description	Date approved	Approver
05	UPDATED DRAWING PN STYLE CODE TO -XX	2026-09-16	Luke Bouttell
06	UPDATED BMS TO REMOVE COMPONENTS FROM BOM	2026-09-16	Luke Bouttell
07	CORRECT ICD DATA TABLE VALUE FOR STEADY STATE POWER DISSIPATION	2026-09-18	Luke Bouttell
08	ADDED LABEL ARTWORK DRAWINGS	2026-10-08	Luke Bouttell
09	UPDATED TO LATEST VSH	2026-10-15	Luke Bouttell
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCE TO STANDARD: ISO 2768-MK ANGULAR ± 2° SURFACE FINISH ✓			
DRAWN	NAME	DATE	MP SPACE PTY LTD
CHECKED	COREY	09/13/2025	
APPROVED	LUKE BOUTTELL	10/15/2026	
DO NOT SCALE DRAWING			TITLE
BREAK ALL SHARP EDGES AND REMOVE BURRS			ASSEMBLY ICD
THIRD ANGLE PROJECTION			PACK2-8S6P-21700
MATERIAL	FINISH	SIZE	ICD-10000070-04-XX
SEE MATERIAL TABLE	SEE MATERIAL TABLE	C	
SCALE	3:4	WEIGHT	4526.67 g ± 33 g
SHEET	1 of 3	REV.	09

- NOTES:**
- MOUNT BATTERY PACK ACCORDING TO APPROPRIATE THREAD-DEPTH AND TORQUE PER FASTENER AND MATING MATERIAL.
 - EXTERIOR SURFACE FINISH IS STYLE CODE DEPENDANT:
 - 10000070-04-00: MATTE FINISH AND ANODIZED PER NASA/JSC PRC-5006, TYPE II, CLASS 2, COLOR BLACK.
 - 10000070-04-01: CHEMICAL CONVERSION COATING, IAW MIL-DTL-5541, TYPE II, CLASS 3. COLOR: LIGHT IRIDESCENT. COATING SHALL BE ELECTRICALLY CONDUCTIVE.
 - INERTIA VALUES ABOUT DRAWING DATUM

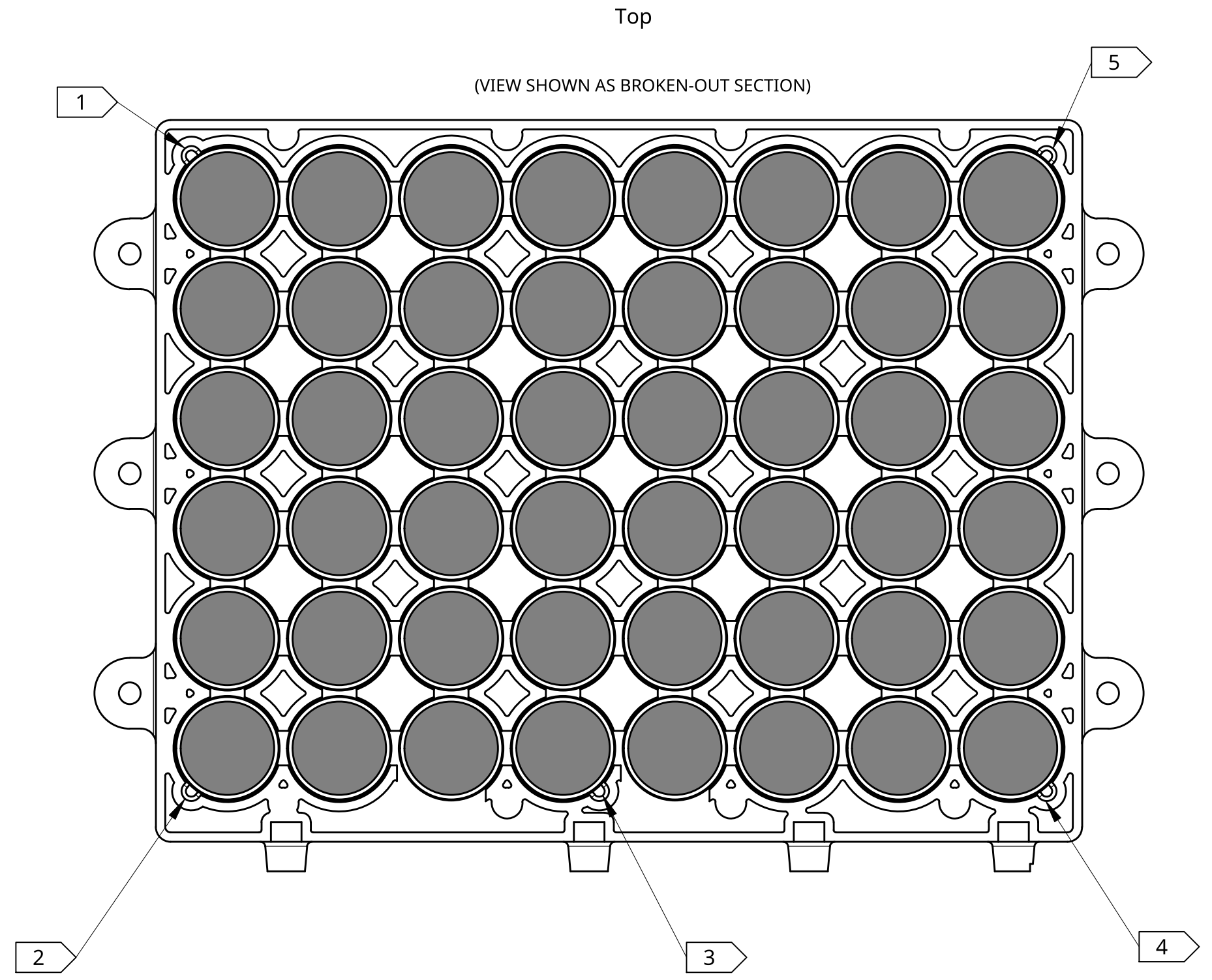
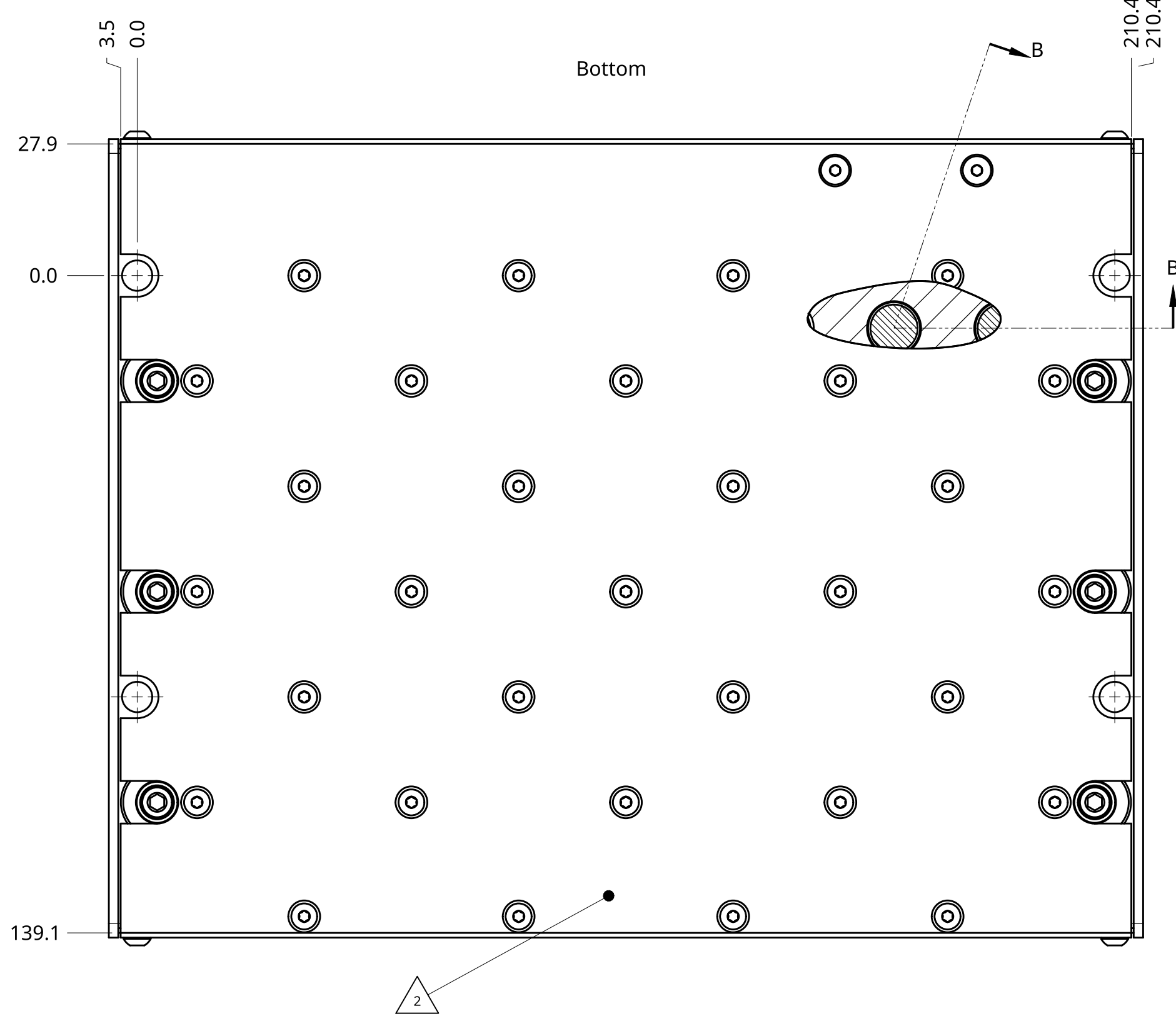
4 3 2 1

D

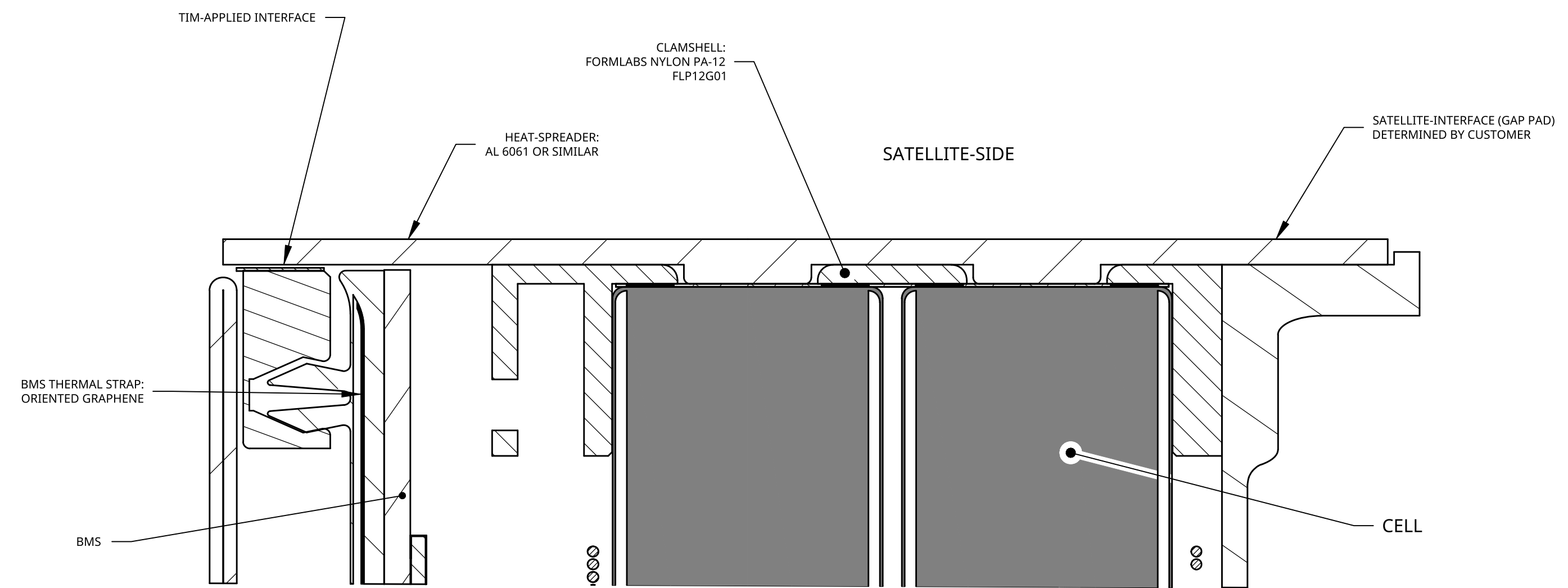
C

B

A



TEMPERATURE SENSE:
FLAGS INDICATE CELL AND APPROXIMATE
RADIAL LOCATION WHERE SENSED.



SECTION B - B
SCALE 3:1

REVISIONS			
See sheet 1			
MP SPACE PTY LTD			
TITLE			
ASSEMBLY			
ICD			
PACK2-8S6P-21700			
SIZE	DWG NO.	REV.	
C	ICD-10000070-04-XX	09	
SCALE	1:1	SHEET	2 of 3

4 3 2 1

4

3

2

1

D

C

B

A

Parameter	Value	Units	Notes
Cell & Interconnect Nominal Resistance	21.5	mΩ	Estimated terminal-to-terminal at 50 % SoC, 23 °C using 10 s DCIR pulse. Use +40% for worst-case modelling. Provided for energy / power efficiency modelling.
BMS Power-Path Resistance	4.2	mΩ	Includes FETs, sense shunt, and contactors. Adds linearly to cell/interconnect resistance. Use +20 % for worst-case. Provided for energy / power efficiency modelling. (Measured at Ambient Temperature)
Power Dissipation - Steady state	5.8	W	0.5C-rate continuous discharge at 23 degrees C.
Power Dissipation - Max	49.4	W	38A during charge at 10 degree C.
Thermal Capacitance	4206	J/K	Estimated ±1% margin. Cells comprise 72% of thermal capacitance; additional 10% is well-coupled heat-spreader and endplates.
Heater Power	144	W	Heater is designed to deliver ~3 watts per cell of heater power at nominal pack voltage. Actual power varies with cell voltage and cell temp.
Current Transient Capability	38	A	Maximum discharge current permitted provided cell temperatures stay ≤ 55 °C. Spacecraft thermal model to verify pulse length vs. thermal capacity.
Emissivity	0.85-0.95 0.05-0.15	- -	Black Anodised Finish Chemfilm Finish

		REVISIONS See sheet 1	
MP SPACE PTY LTD 			
TITLE DATA TABLE ICD PACK2-8S6P-21700			
SIZE C	DWG NO. ICD-10000070-04-XX	REV. 09	
SCALE 1:1			SHEET 3 of 3