

[illegible]

Row Number	Name	External/Internal (Major/Minor Components)	Qty	Material	Body Type	Mass (g)	Diameter/ Width (mm)	Length (mm)	Height (mm)
	Memsat								
1	CubeSat Structure	External - Major	1	Aluminum 6061	Hollow box	87.2	100	113.5	100
2	Antennae	External - Major	2	Steel 410	Steel strip	66	1.6	170	6
3	Antennae Sub-chassis	External major	1	polymeric material	rectangular channel	12	82.6	98	6.5
4	Separation springs	External - Minor	4	Stainless Steel	Spring	31.10638	1.78	11.1	N/A
5	Nd2Fe14B (Magnets)	Internal - Major	4	neodymium	ADCS Board parts	3.505	5	2.5	N/A
6	Payload Board (4 Experiment Chips/PCB)	External - Major	6	Silicon	Mounted on the solarcell PCB's	160.284	95	95	1.6
7	Payload Board (Controller and secondary senso	Internal - Major	1	FR-4, copper	PCB	26.714	95	95	1.6
8	Comm Board	Internal - Major	1	FR-4, copper	PCB	26.714	95	95	1.6
9	C&DH Board	Internal - Major	1	FR-4, copper	PCB	26.714	95	95	1.6
10	Cabling	Internal - Minor	72	Copper alloy	Wire	42.048	26 gauge	N/A	N/A
11	Batteries - ICR18650	Internal - Major	2	Lithium, metal casing	Battery PCB	48	18.4	65	18.4
12	Solar Panels - Ultra Triple Junction Solar Cells	External - Major	12	GaNP2, GaAs, Ge	Thin panel mounted on PCB	26.832	2662 (mm^2)	N/A	0.6
13	Ceramic Multilayer Capacitors	Internal - Minor	30	X7R Dielectric, metal I	Power board parts	0.18	2	1.27	1.5
14	LTC3245 Voltage Regulator	Internal - Minor	5	Plastic casing, silicon	Power board parts	0.25	3	3	N/A
15	Schottky Rectifiers (MBRS360)	Internal - Minor	3	Si	Power board parts	0.84	7.15	2.25	2.45
16	LTC3105 MPPT IC	Internal - Minor	12	Plastic casing, silicon	Power board parts	0.6	3	3	1.6
17	LTC4071 Battery Charger IC	Internal - Minor	1	Plastic casing, silicon	Power board parts	0.05	2	3	N/A
18	Thin-Film Resistors	Internal - Minor	30	Aluminum Nitride	Power board parts	1.5	2	3	N/A
19	Power Supply Board	Internal - Major	1	FR-4, copper	Power PCB	26.714	95	95	1.6
Total						587.2513			
Guide/Descriptions of Each Column									
Row Number:	List Components in decreasing importance (Follow Column C)								
Name:	List you CubeSat first as the parent, and each component and subsystem associated with your CubeSat								
External /Internal:	Rank CubeSat components from External to Internal and Major to Minor								
Qty:	List the quantity of component								
Material:	List the parent material for the component, specify alloy type if possible								
Body Type:	List the general shape of the component								
Mass:	List the mass of the component in grams								
Dimensions:	List the Width/Length/Height in millimeters								