

Reentry Data

Row Num	Name	Parent	Qty	Material	Body Type	Thermal Mas	Diameter/Wi	Length	Height	Status	Risk	Demise Alt	Total DCA	KE
1	GRATTIS		0	1 Aluminum 6061-T6	Box	210	1.039	1.14	0.947	Compliant	'1:11300'		7.26	
2	Battery		1	1 Aluminum 6061-T6	Box	15.3	0.303	0.417	0.132			63.9	0	0
3	Solar Array Cells		1	214 Solar Cell Composite	Box	0.014	0.063	0.145	0.00055			77.8	0	0
4	Solar Array Top Sheet		1	2 Solar Array Facesheet	Box	0.7895	0.871	1.136	0.00055			77.8	0	0
5	Solar Array Bottom Sheet		1	2 Solar Array Facesheet	Box	0.7895	0.871	1.136	0.00065			77.8	0	0
6	Solar Array Core		1	2 Solar Array Honeycomb	Box	0.621	0.871	1.136	0.0196			77.8	0	0
7	Solar Array HDRM Bracket		1	2 Aluminum 6061-T6	Box	0.25	0.1	0.1	0.1			76.7	0	0
8	Solar Array mount brackets		1	2 Aluminum 6061-T6	Box	0.34	0.1	0.1	0.1			76.3	0	0
9	NX Panel		1	1 Aluminum 6061-T6	Cylinder	6.195	0.6	0.325				74.8	0	0
10	S-Band Transceiver - Secondary		1	4 Aluminum 6061-T6	Box	0.36	0.136	0.182	0.095			77	0	0
11	Strut Assembly		1	1 Aluminum 6061-T6	Box	0.1352	0.05	0.05	0.05			75.9	0	0
12	Fastener Shipset		1	4 Aluminum 6061-T6	Cylinder	1.45	0.146	0.045				67.6	0	0
13	X-Band Antenna		1	2 Aluminum 6061-T6	Box	0.27	0.05	0.095	0.044			75.5	0	0
14	Center Cylinder		1	1 Aluminum 6061-T6	Flat Plate	5.57	0.424	1.179				74.6	0	0
15	RWA Bracket		1	1 Aluminum 6061-T6	Flat Plate	5.67	0.424	1.179				74.5	0	0
16	NZ Panel		1	1 Aluminum 6061-T6	Box	0.29	0.089	0.094	0.0185			75	0	0
17	UHF Antenna		1	1 Aluminum 6061-T6	Box	0.77	0.114	0.114	0.05			73.6	0	0
18	UHF Hybrid Coupler		1	1 Aluminum 6061-T6	Box	2.46	0.18	0.23	0.04			71.2	0	0
19	Separation System - Fly Away		1	1 Stainless Steel (generic)	Cylinder	14.03	0.05	1				58.6	0	0
20	Precision Gyro		1	1 Aluminum 6061-T6	Flat Plate	0.36	0.424	0.861				77.7	0	0
21	Reaction Wheels		1	1 Aluminum 6061-T6	Flat Plate	0.47	0.424	0.861				77.7	0	0
22	Harness/Connectors		1	1 Aluminum 6061-T6	Flat Plate	0.14	0.1	0.1				76.3	0	0
23	Avionics Tray		1	1 Aluminum 6061-T6	Box	2.01	0.15	0.25	0.1			73.9	0	0
24	GNSS Receiver		1	1 Aluminum 6061-T6	Box	0.693	0.114	0.114	0.05			74	0	0
25	S-Band Antenna		1	1 Aluminum 6061-T6	Box	2.54	0.254	0.254	0.05			72.3	0	0
26	Star Tracker		1	1 Aluminum 6061-T6	Flat Plate	14.1	0.352	0.854				66.3	0	0
27	L-band antenna bracket		1	1 Aluminum 6061-T6	Box	0.083	0.1	0.1	0.05			77.4	0	0
28	PX Panel		1	1 Aluminum 6061-T6	Flat Plate	6.74	0.352	0.854				72.2	0	0
29	Flight Computer		1	1 Aluminum 6061-T6	Flat Plate	6	0.35	0.527				70.6	0	0
30	Ethernet Switch		1	2 Polyamide	Cylinder	0.17	0.1	0.2				77.6	0	0
31	PY Panel		1	1 Aluminum 6061-T6	Flat Plate	0.2	0.1	0.1				75.6	0	0
32	NY Panel		1	4 Aluminum 6061-T6	Cylinder	0.13	0.1	0.05				76.4	0	0
33	S-band antenna bracket		1	1909 Stainless Steel (generic)	Cylinder	0.002167	0.05	0.05				77.9	0	0
34	USX radio		1	2 Aluminum 6061-T6	Cylinder	0.35	0.09	0.027				71.4	0	0
35	Harness interface box		1	1 Aluminum 6061-T6	Flat Plate	0.01	0.082	0.098				77.9	0	0
36	PCDU		1	2 Stainless Steel (generic)	Cylinder	0.0059	0.05	0.1				77.9	0	0
37	PZ Panel		1	3 Aluminum 6061-T6	Box	0.06	0.1	0.1	0.1			77.7	0	0
38	Magnetometer		1	1 Aluminum 6061-T6	Box	0.31	0.056	0.094	0.026			74.6	0	0
39	Star Tracker Closeout Baffle and Br		1	2 Aluminum 6061-T6	Flat Plate	0.1803	0.082	0.098				75.6	0	0
40	GNSS L-Band Antenna		1	3 Aluminum 6061-T6	Cylinder	0.539	0.05	0.43				75.9	0	0
41	Torque Rods		1	1 Aluminum 6061-T6	Cylinder	3.55	0.15	0.15				66.8	0	0
42	Payload closeout covers		1	4 Aluminum 6061-T6	Flat Plate	0.5	0.1	0.1				72.4	0	0
43	Thermal blanketing		1	1 Aluminum 6061-T6	Flat Plate	3.45	1	1				76.3	0	0
44	Heaters		1	8 Aluminum 6061-T6	Flat Plate	0.25	0.1	0.1				75.1	0	0
45	Temperature sensors		1	12 Aluminum 6061-T6	Flat Plate	0.1	0.1	0.1				76.8	0	0
46	Thermal Tape		1	1 Aluminum 6061-T6	Flat Plate	0.15	0.1	0.1				76.2	0	0
47	APU		1	1 Aluminum 6061-T6	Box	0.61	0.08936	0.1875	0.041334			75.3	0	0
48	PPU		1	1 Aluminum 6061-T6	Box	1.88	0.1414	0.2019	0.05185			72.2	0	0
49	Thruster		1	1 Aluminum 6061-T6	Cylinder	0.83	0.0755	0.07				68.7	0	0
50	PMA/PFC		1	1 Aluminum 6061-T6	Box	1.26	0.0859	0.089	0.079			70.8	0	0

51 tank - AL	1	1 E-Glass	Cylinder	0.4	0.22951074	0.42		0	0.81	16.57
52 tank - Carbon	1	1 Reinforced Carbon-Carbor	Cylinder	1.2	0.22951074	0.42		0	0.81	149.2
53 tank - glass	1	1 Aluminum 6061-T6	Cylinder	3.5	0.22951074	0.42		73.4	0	0
54 IRIS250 structure	1	1 Aluminum 6061-T6	Box	4.94	0.1	0.185	0.1	66.2	0	0
55 prop lines	1	1 Stainless Steel (generic)	Cylinder	1.42	0.01	2.27		74.4	0	0
56 RESONATOR FRAME	1	6 Aluminum 7075-T6	Flat Plate	0.09948	0.132	0.155		77.4	0	0
57 PIN - RESONATOR MOUNTING	1	24 Titanium (6 Al-4 V)	Cylinder	0.003381	0.024	0.01		77	0	0
58 FLAT - RESONATOR MOUNTING	1	12 Titanium (6 Al-4 V)	Cylinder	0.002033	0.013	0.01		76.8	0	0
59 MOUNT - SENSOR 1	1	1 Aluminum 7075-T6	Flat Plate	0.634062	0.21	0.21		75.7	0	0
60 MOUNT - SENSORS 2-6	1	1 Aluminum 7075-T6	Box	2.902822	0.243	0.243	0.211	74.3	0	0
61 MOUNTING FOOT - ODIN FRAME	1	4 Aluminum 7075-T6	Box	0.059591	0.032	0.048	0.024	76.5	0	0
62 CUBE MOUNT- ODIN FRAME	1	4 Aluminum 7075-T6	Box	0.01681	0.031	0.031	0.014	77.2	0	0
63 CROSS BRACE- ODIN FRAME	1	4 Aluminum 7075-T6	Flat Plate	0.382252	0.165	0.362		77	0	0
64 FIBER SPOOL- HALF	1	24 Polycarbonate (aka Lexan)	Flat Plate	0.002169	0.028	0.056		78	0	0
65 VERTICAL SUPPORT SIMPLIFIED- OI	1	3 Aluminum 7075-T6	Flat Plate	0.272623	0.09	0.375		76.9	0	0
66 PLUNGER- LAUNCH LOCK	1	12 Teflon	Box	0.001271	0.009	0.021	0.007	77.9	0	0
67 PLUNGER BODY- LAUNCH LOCK	1	12 Aluminum 7075-T6	Box	0.01791	0.032	0.035	0.015	77.3	0	0
68 BODY- LAUNCH LOCK- LEFT	1	6 Aluminum 7075-T6	Box	0.025861	0.026	0.051	0.024	77.3	0	0
69 BODY- LAUNCH LOCK- RIGHT	1	6 Aluminum 7075-T6	Box	0.025861	0.026	0.051	0.024	77.3	0	0
70 BRACKET- LAUNCH LOCK	1	12 Aluminum 7075-T6	Flat Plate	0.005177	0.022	0.024		77.3	0	0
71 PRELOAD PLATE- LAUNCH LOCK- LI	1	6 Aluminum 7075-T6	Flat Plate	0.003412	0.018	0.02		77.4	0	0
72 PRELOAD PLATE- LAUNCH LOCK- R	1	6 Aluminum 7075-T6	Flat Plate	0.00341	0.018	0.02		77.4	0	0
73 MOTOR CLAMP- LAUNCH LOCK	1	12 Aluminum 7075-T6	Box	0.001727	0.007	0.022	0.006	77.7	0	0
74 POST- PHOTODIODE MOUNT	1	12 Titanium (6 Al-4 V)	Cylinder	0.003685	0.007	0.026		76.2	0	0
75 BRACKET- PHOTODIODE MOUNT	1	12 Aluminum 7075-T6	Flat Plate	0.00716	0.03	0.035		77.5	0	0
76 BASE- VERTICAL CLAMP	1	12 Aluminum 7075-T6	Box	0.004624	0.011	0.029	0.007	77.5	0	0
77 FIBER STANDOFF	1	12 Aluminum 7075-T6	Cylinder	0.001265	0.006	0.021		77.7	0	0
78 MOUNT- FIBER COLLIMATOR- LEFT	1	6 Titanium (6 Al-4 V)	Box	0.012983	0.02	0.028	0.008	75.3	0	0
79 MOUNT- FIBER COLLIMATOR- RIGH	1	6 Titanium (6 Al-4 V)	Box	0.012983	0.02	0.028	0.008	75.3	0	0
80 POLARIZER- TIP TILT- MOUNT	1	24 Stainless Steel (generic)	Cylinder	0.002101	0.01	0.0077		77	0	0
81 SENSOR FIBER COIL	1	6 Polycarbonate (aka Lexan)	Flat Plate	0.00634	0.07	0.072		78	0	0
82 COVER- TOP- LEFT SIDE	1	6 Polycarbonate (aka Lexan)	Box	0.023403	0.062	0.106	0.057	77.9	0	0
83 COVER- TOP- RIGHT SIDE	1	6 Polycarbonate (aka Lexan)	Box	0.023403	0.062	0.106	0.057	77.9	0	0
84 COVER- BOTTOM- LEFT SIDE	1	6 Polycarbonate (aka Lexan)	Flat Plate	0.008727	0.059	0.109		78	0	0
85 COVER- BOTTOM- RIGHT SIDE	1	6 Polycarbonate (aka Lexan)	Flat Plate	0.008727	0.059	0.109		78	0	0
86 CLAMP- LAUNCH LOCK	1	24 Aluminum 7075-T6	Box	0.001572	0.011	0.011	0.008	77.6	0	0
87 FIBER TRACK- SENSOR 2	1	1 Polycarbonate (aka Lexan)	Box	0.010458	0.049	0.115	0.04	78	0	0
88 FIBER TRACK- SENSOR 6	1	1 Polycarbonate (aka Lexan)	Box	0.013963	0.052	0.138	0.038	78	0	0
89 FIBER TRACK- SENSORS 2 & 6- TOP	1	1 Polycarbonate (aka Lexan)	Box	0.012253	0.029	0.16	0.02	78	0	0
90 FIBER TRACK- SENSORS 2 & 6- SIDI	1	1 Polycarbonate (aka Lexan)	Box	0.007735	0.02	0.118	0.01	77.9	0	0
91 FIBER TRACK- SENSNOR 3	1	1 Polycarbonate (aka Lexan)	Box	0.0111	0.046	0.113	0.031	78	0	0
92 FIBER TRACK- SENSOR 5	1	1 Polycarbonate (aka Lexan)	Box	0.011846	0.044	0.112	0.042	78	0	0
93 FIBER TRACK- SENSOR 4	1	1 Polycarbonate (aka Lexan)	Box	0.007806	0.045	0.097	0.041	78	0	0
94 FIBER TRACK- SENSORS 1 & 4- BOT	1	1 Polycarbonate (aka Lexan)	Box	0.018619	0.098	0.162	0.04	78	0	0
95 FIBER TRACK- SENSORS 1 & 4- SIDI	1	1 Polycarbonate (aka Lexan)	Box	0.01609	0.062	0.142	0.036	78	0	0
96 RESONATOR PLATE	1	6 Fused Silica (7980)	Box	0.124363	0.137	0.137	0.007	0	2.55	16.9
97 ANVIL- SAPPHIRE- 0.160IN DIA X 0.1	1	96 Fused Silica (7980)	Box	0.00001	0.004	0.004	0.0005	78	0	0
98 Interferometer	1	12 Sapphire	Box	0.027539	0.033	0.034	0.018	0	3.83	7.46
99 MIRROR- TEST AND REFERENCE	1	24 Fused Silica (7980)	Box	0.000207	0.01	0.02	0.01	0	7.14	0
100 LENS- MODIFIED FIBER LASER COI	1	24 Fused Silica (7980)	Box	0.0001	0.004	0.004	0.0031	0	6.79	0.01
101 POLARIZER- 5 mm BY 5 mm- EDMU	1	24 H-LAK54	Box	0.000027	0.005	0.005	0.0005	78	0	0
102 RESTORING SPRING- LEE SPRING-	1	12 n-BK7	Cylinder	0.000055	0.004	0.0143		78	0	0

103	COMPRESSION SPRING- 0.125" OI	1	12 Steel AISI 316	Cylinder	0.000071	0.00635	0.003		77.9	0	0
104	SET SCREW- CONE POINT- 4-40 X C	1	12 Steel AISI 316	Cylinder	0.000433	0.0028	0.0095		77.5	0	0
105	DOWEL PIN- 1/8" DIA X 5/8" L- SS 316	1	12 Steel AISI 304	Cylinder	0.001	0.01	0.02		77.7	0	0
106	DOWEL PIN- 0.0625" X 0.250"- 316S	1	36 Steel AISI 316	Cylinder	0.0001	0.01	0.02		78	0	0
107	DOWEL PIN- 1/8" X 3/8"	1	24 Steel AISI 316	Cylinder	0.00059	0.0095	0.0031		77.6	0	0
108	DOWEL PIN- 1/8" DIA- 5/16" L- 416	1	12 Steel AISI 410	Cylinder	0.0005	0.0079	0.0031		77.5	0	0
109	DOWEL PIN- 0.125" X 1.125"- 316S	1	24 Steel AISI 316	Cylinder	0.0018	0.0285	0.0285		77.9	0	0
110	DOWEL PIN- 1/8" DIA X 1/2" L- SS 416	1	29 Steel AISI 410	Cylinder	0.00078	0.01	0.01		77.6	0	0
111	DOWEL PIN- 1/8" X .3125"- 416SS- 1/2	1	12 Steel AISI 410	Cylinder	0.00037	0.0075	0.0031		77.6	0	0
112	SHCS- #10-32 BY L0.6250IN- NAS1	1	12 Steel A-286	Cylinder	0.0039	0.02	0.0079		77.2	0	0
113	SHCS- #2-56 BY L0.2500IN- NAS13	1	48 Steel A-286	Cylinder	0.000287	0.0085	0.0035		77.8	0	0
114	SHCS- #4-40 BY L0.7500IN- NAS13	1	12 Steel A-286	Cylinder	0.001279	0.01	0.0218		77.7	0	0
115	SHCS- #4-40 BY L1.0000IN- A286 (I	1	8 Steel A-286	Cylinder	0.001599	0.01	0.01		77.4	0	0
116	SHCS- #4-40 BY 0.1875IN- NAS135	1	24 Steel A-286	Cylinder	0.00056	0.0076	0.0046		77.6	0	0
117	SHCS- #4-40 BY L0.3750IN- NAS13	1	210 Steel A-286	Cylinder	0.00064	0.0091	0.0046		77.6	0	0
118	SHCS- #4-40 BY L0.31250IN- NAS1	1	24 Steel A-286	Cylinder	0.000627	0.0107	0.0046		77.7	0	0
119	SHCS- #4-40 BY L0.5000IN- NAS13	1	108 Steel A-286	Cylinder	0.000959	0.01	0.02		77.8	0	0
120	SHCS- #6-32 BY L0.5000IN- NAS13	1	18 Steel A-286	Cylinder	0.001613	0.0162	0.0058		77.5	0	0
121	SHCS- #8-32 BY L0.6250IN- NAS13	1	8 Steel A-286	Cylinder	0.002732	0.02	0.0068		77.4	0	0
122	SHCS- #8-32 BY L0.5000IN- NAS13	1	40 Steel A-286	Cylinder	0.002389	0.0168	0.0068		77.4	0	0
123	WASHER- #4- NAS620C4L	1	84 Stainless Steel (generic)	Flat Plate	0.00005	0.0053	0.0053		77.9	0	0
124	WASHER- #4 OD0.312IN BY T0.025	1	32 Stainless Steel (generic)	Flat Plate	0.00026	0.0079	0.0079		77.7	0	0
125	HELICOIL- 2-56 X 1.5D- TANGLESS-	1	48 Stainless Steel (generic)	Cylinder	0.00006	0.0032	0.003		77.8	0	0
126	HELICOIL- #4-40 BY 1.0D- TANGLESS-	1	52 Stainless Steel (generic)	Cylinder	0.00009	0.0031	0.0049		77.8	0	0
127	HELICOIL- 4-40 X 1.5D- TANGLESS-	1	248 Stainless Steel (generic)	Cylinder	0.00015	0.01	0.01		77.9	0	0
128	HELICOIL- 4-40 X 2.0D- TANGLESS-	1	12 Stainless Steel (generic)	Cylinder	0.00021	0.0056	0.004		77.7	0	0
129	HELICOIL- #6-32 X 1.5D- TANGLESS-	1	18 Stainless Steel (generic)	Cylinder	0.00026	0.0051	0.0049		77.7	0	0
130	HELICOIL- #8-32 BY 1.5D- TANGLESS-	1	56 Stainless Steel (generic)	Cylinder	0.00038	0.0061	0.0055		77.6	0	0
131	[IST] Picomotor Board	1	6 Fiberglass	Flat Plate	0.004854	0.022	0.039		77.6	0	0
132	[IST] Photodiode Board	1	12 Fiberglass	Flat Plate	0.001009	0.022	0.023		77.9	0	0
133	SMA CONNECTOR- RA- RG178	1	24 Copper Alloy	Box	0.0063	0.015	0.019	0.008	77.3	0	0
134	PHOTODIODE- PASSIVE 3 MM SENS	1	24 Copper Alloy	Box	0.002239	0.009	0.009	0.007	77.4	0	0
135	CONTACT SWITCH- BODY- MISUMI	1	24 Stainless Steel (generic)	Cylinder	0.002148	0.01	0.02		77.5	0	0
136	NUT- MISUMI- GN-PT3M31	1	24 Stainless Steel (generic)	Flat Plate	0.000465	0.007	0.007		77.3	0	0
137	TUBE- MODIFIED FIBER LASER COI	1	24 Stainless Steel (generic)	Cylinder	0.00191	0.0152	0.0057		77.3	0	0
138	CABLE TIE MOUNT- #8 OR M4- LOW	1	32 Polycarbonate (aka Lexan)	Box	0.000353	0.009	0.015	0.007	78	0	0
139	BRASS- PICOMOTOR ACTUATOR	1	12 Brass- Muntz	Cylinder	0.00886	0.019	0.0127		77.3	0	0
140	FIBER INTERFACE- 0.9 mm OD JAC	1	24 Fused Silica (7980)	Cylinder	0.000279	0.01	0.01		77.8	0	0
141	BODY- PICOMOTOR ACTUATOR	1	12 Aluminum 6061-T6	Box	0.00657	0.0185	0.03	0.0147	77.6	0	0
142	NUT- PICOMOTOR ACTUATOR	1	12 Stainless Steel (generic)	Flat Plate	0.00002	0.013	0.013		78	0	0
143	SCREW- PICOMOTOR ACTUATOR	1	12 Stainless Steel (generic)	Cylinder	0.04904	0.02	0.05		74.7	0	0
144	CMM ARTIFACT- HEXAGON- M2 RU	1	24 Stainless Steel (generic)	Cylinder	0.001516	0.016	0.006		77.5	0	0
145	Chassis	1	1 Aluminum 7075-T6	Box	0.593	0.115	0.215	0.072	76.4	0	0
146	Side Chassis Panels	1	2 Aluminum 7075-T6	Flat Plate	0.054	0.072	0.114		77.3	0	0
147	Front Chassis Panel	1	1 Aluminum 7075-T6	Flat Plate	0.219	0.114	0.214		76.9	0	0
148	Top Chassis panel	1	1 Aluminum 7075-T6	Flat Plate	0.104	0.072	0.214		77.3	0	0
149	ADC Bracket	1	14 Aluminum 7075-T6	Flat Plate	0.018	0.052	0.06		77.5	0	0
150	Fiber Box Half	1	2 Aluminum 7075-T6	Box	0.231	0.095	0.18	0.036	77	0	0
151	Laser heatsink	1	1 Copper Alloy	Flat Plate	0.486	0.072	0.102		73.2	0	0
152	PCU PCBA	1	1 Fiberglass	Flat Plate	0.142	0.059	0.201		76.7	0	0
153	FPGA PCBA	1	1 Fiberglass	Flat Plate	0.142	0.107	0.166		77	0	0
154	ADC/DAC PCBA	1	15 Fiberglass	Flat Plate	0.016	0.045	0.06		77.5	0	0

155	Laser Driver PCBA	1	2	Fiberglass	Flat Plate	0.026	0.075	0.075		77.5	0	0
156	Picomotor PCBA	1	1	Fiberglass	Box	0.26	0.09	0.09	0.018	75.2	0	0
157	Laser Diode	1	2	Invar	Box	0.022	0.015	0.02	0.009	74.8	0	0
158	Fiber Sleeves	1	28	Steel AISI 304	Cylinder	0.0045	0.008	0.1		77.6	0	0
159	Screws- 4-40	1	170	Steel A-286	Cylinder	0.0006	0.003	0.1		77.9	0	0
160	Screws- 6-32	1	12	Steel A-286	Cylinder	0.001	0.0045	0.012		77.3	0	0
161	Screws 10-32	1	6	Steel A-286	Cylinder	0.003	0.0055	0.016		76.7	0	0
162	Optical Fibers	1	14	Teflon	Cylinder	0.005	0.01	0.215		78	0	0
163	Cables combined	1	1	Copper Alloy	Cylinder	1.167	0.05	0.215		71.9	0	0
164	Payload plate	1	2	Aluminum 7075-T6	Flat Plate	4.32	0.385	0.492		72.8	0	0
165	Payload ring	1	4	Aluminum 7075-T6	Flat Plate	0.29	0.1	0.513		77.1	0	0
166	Isolators	1	8	Aluminum 6061-T6	Cylinder	0.09	0.0467	0.0237		74.5	0	0
167	Payload support legs	1	2	Aluminum 7075-T6	Flat Plate	1.08	0.13	0.209		73.1	0	0
168	Payload support plate	1	1	Titanium (6 Al-4 V)	Box	2.51	0.13	0.235	0.04	0	0.49	3561.67
169	Thermal shield	1	1	Aluminum 6061-T6	Box	7.91	0.508	1.056	0.367	75.7	0	0
170	PPS board	1	1	Fiberglass	Flat Plate	0.018	0.072	0.09		77.7	0	0
171	PPS box	1	1	Aluminum 6061-T6	Box	0.761	0.11	0.15	0.068	74.9	0	0
172	Connectors	1	4	Aluminum 6061-T6	Cylinder	0.016	0.025	0.0125		76.3	0	0
173	SACU enclosure	1	2	Aluminum 7075-T6	Box	2.82	0.175	0.211	0.127	72.7	0	0
174	OMA enclosure	1	2	Aluminum 7075-T6	Box	0.333	0.052	0.109	0.045	75.5	0	0
175	OMA LED mount	1	2	Aluminum 7075-T6	Flat Plate	0.137	0.08	0.0895		76.1	0	0
176	OMA heat sink	1	2	Copper Alloy	Flat Plate	0.077	0.037	0.084		76.4	0	0
177	Backplane	1	2	Fiberglass	Flat Plate	0.051	0.0876	0.1661		77.6	0	0
178	UVLED driver board	1	2	Fiberglass	Flat Plate	0.038	0.1	0.1194		77.6	0	0
179	UVDB Tray	1	2	Aluminum 7075-T6	Flat Plate	0.127	0.1079	0.12		76.9	0	0
180	Controller board	1	2	Fiberglass	Flat Plate	0.05	0.1	0.16		77.6	0	0
181	Controller tray	1	2	Aluminum 7075-T6	Flat Plate	0.171	0.1079	0.161		76.9	0	0
182	System interface board	1	2	Fiberglass	Flat Plate	0.05	0.1	0.16		77.6	0	0
183	SIB tray	1	2	Aluminum 7075-T6	Flat Plate	0.171	0.1079	0.161		76.9	0	0
184	Sense and actuation board	1	6	Fiberglass	Flat Plate	0.05	0.1	0.16		77.6	0	0
185	SAB tray	1	6	Aluminum 7075-T6	Flat Plate	0.171	0.1079	0.161		76.9	0	0
186	TM bias board	1	2	Fiberglass	Flat Plate	0.05	0.1	0.16		77.6	0	0
187	TMBB tray	1	2	Aluminum 7075-T6	Flat Plate	0.171	0.1079	0.161		76.9	0	0
188	Central support	1	2	Aluminum 7075-T6	Flat Plate	0.195	0.1079	0.161		76.7	0	0
189	PCU enclosure	1	2	Aluminum 6061-T6	Box	1.628	0.124	0.2324	0.08	73.9	0	0
190	Power card	1	2	Fiberglass	Flat Plate	0.095	0.1016	0.21		77.4	0	0
191	Daughter card	1	2	Fiberglass	Flat Plate	0.019	0.063	0.1016		77.7	0	0
192	Heat sinks	1	16	Copper Alloy	Flat Plate	0.023	0.0264	0.031		76.5	0	0
193	DC/DC 1	1	4	Copper Alloy	Box	0.065	0.0287	0.0371	0.0084	75.5	0	0
194	DC/DC 2	1	2	Copper Alloy	Box	0.101	0.0286	0.054	0.0103	75.4	0	0
195	DC/DC 3	1	2	Copper Alloy	Box	0.181	0.0383	0.076	0.0102	75.1	0	0
196	DC/DC 4	1	2	Copper Alloy	Box	0.152	0.0367	0.062	0.012	75.2	0	0
197	Test mass	1	2	Tungsten	Box	0.52	0.03	0.03	0.03	0	0.64	2314.42
198	Spacers	1	24	Sapphire	Flat Plate	0.001	0.0115	0.0225		0	7.2	0.03
199	Electrode housing (incl electrodes)	1	12	Molybdenum	Flat Plate	0.015	0.0414	0.0414		0	4.04	1.18
200	Cover plates	1	12	Molybdenum	Flat Plate	0.015	0.0419	0.0419		0	4.05	1.15
201	EMI shields	1	12	Titanium (6 Al-4 V)	Box	0.004	0.0085	0.0341	0.0056	76.8	0	0
202	muMetal shield	1	2	Aluminum (generic)	Box	0.182	0.0746	0.0803	0.0674	76.5	0	0
203	SGRS frame +y	1	2	Titanium (6 Al-4 V)	Flat Plate	0.727	0.127	0.152		0	0.98	246.92
204	SGRS frame -y	1	2	Titanium (6 Al-4 V)	Flat Plate	0.727	0.127	0.152		0	0.98	246.92
205	SGRS frame +z	1	2	Aluminum (generic)	Flat Plate	0.134	0.075	0.12		76.4	0	0
206	SGRS frame -z	1	2	Titanium (6 Al-4 V)	Flat Plate	0.299	0.075	0.12		67.9	0	0

207 Caging finger	1	2 Titanium (6 Al-4 V)	Cylinder	0.009	0.0099	0.0272		74.8	0	0
208 Caging flexure	1	4 Titanium (6 Al-4 V)	Flat Plate	0.085	0.062	0.062		71.5	0	0
209 Caging flexure mount	1	4 Titanium (6 Al-4 V)	Box	0.385	0.064	0.064	0.027	65.2	0	0
210 Cable release mechanism	1	4 Aluminum 7075-T6	Box	0.281	0.03	0.166	0.025	75.4	0	0
211 Cable piston	1	8 Steel AISI 304	Cylinder	0.017	0.01	0.03		74.5	0	0
212 Clamp arm bracket	1	12 Titanium (6 Al-4 V)	Flat Plate	0.013	0.0254	0.0282		74.7	0	0
213 Cable release lever	1	4 Titanium (6 Al-4 V)	Box	0.055	0.02	0.1	0.02	75.1	0	0
214 Pawl housing	1	4 Titanium (6 Al-4 V)	Box	0.089	0.0285	0.03	0.0254	70.4	0	0
215 Piezo mount	1	4 Titanium (6 Al-4 V)	Box	0.082	0.03	0.0305	0.03	71.2	0	0
216 Fiber feedthrough	1	2 Titanium (6 Al-4 V)	Cylinder	0.007	0.006	0.0566		76.1	0	0
217 Piezo motor	1	4 Aluminum 6061-T6	Box	0.031	0.02	0.0297	0.02	76.4	0	0
218 Frangibolt	1	8 Nickel	Cylinder	0.045	0.018	0.02		71.9	0	0
219 Caging cover	1	4 Aluminum 6061-T6	Box	0.32	0.113	0.116	0.0775	76.4	0	0
220 Base cover	1	2 Aluminum 6061-T6	Flat Plate	0.077	0.09	0.127		77.2	0	0
221 Side cover	1	4 Aluminum 6061-T6	Flat Plate	0.067	0.09	0.137		77.4	0	0
222 Fasteners (10-32)	1	92 Steel AISI 304	Cylinder	0.005	0.01	0.03		76.8	0	0
223 Fasteners (8-32)	1	22 Steel AISI 304	Cylinder	0.003	0.0042	0.03		76.8	0	0
224 Fasteners (6-32)	1	16 Steel AISI 304	Cylinder	0.002	0.0035	0.03		77	0	0
225 Fasteners (1/4-28)	1	36 Steel AISI 304	Cylinder	0.008	0.0064	0.03		75.6	0	0
226 Dowel (3/16)	1	4 Steel AISI 304	Cylinder	0.004	0.0048	0.03		76.5	0	0
227 Dowel (1/8)	1	4 Steel AISI 304	Cylinder	0.002	0.0032	0.03		77	0	0
228 Cable	1	1 Copper Alloy	Cylinder	1.689	0.2	0.25		74.6	0	0
229 Insulation	1	1 Polycarbonate (aka Lexan)	Cylinder	1.282	0.2	0.25		77	0	0
230 Connectors-2	1	30 Steel AISI 304	Box	0.008	0.015	0.025	0.01	76.6	0	0