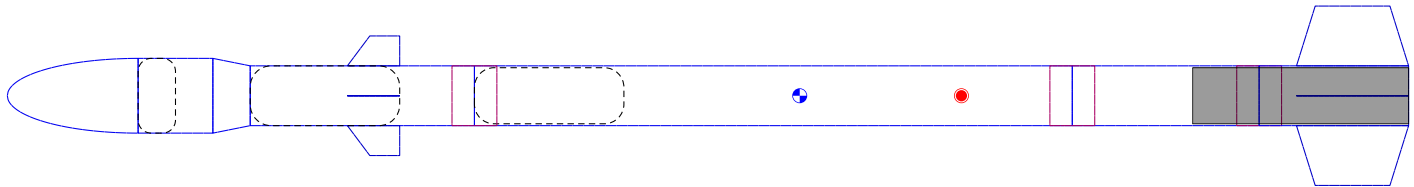


Rocket Design
















Rocket
Stages: 1
Mass (with motor): 7264 g
Stability: 2.16 cal
CG: 1060 mm
CP: 1277 mm

Altitude	2052 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	42.5 s	K780R	809 N	2.92 s	954 N	2361 Ns	11.36:1	1268 g	75/289 mm
Time to Apogee	19 s								
Optimum Delay	16.1 s								
Velocity off Pad	13 m/s								
Max Velocity	282 m/s								
Velocity at Deployment	N/A								
Landing Velocity	136 m/s								

Parts Detail

Sustainer

	Nose cone	Aluminium (2.8 g/cm ³)	Ellipsoid	Len: 175 mm	Mass: 242 g
	Body tube	Aluminium (2.8 g/cm ³)	Dia _{in} 96 mm Dia _{out} 100 mm	Len: 100 mm	Mass: 172 g
	Unspecified		Dia _{out} 100 mm		Mass: 500 g
	Transition	Aluminium (2.8 g/cm ³)	Fore Dia: 100 mm Aft Dia: 80 mm	Len: 50 mm	Mass: 117 g
	Body tube	Aluminium (2.8 g/cm ³)	Dia _{in} 76 mm Dia _{out} 80 mm	Len: 300 mm	Mass: 412 g
	Freeform fin set (4)	Aluminium (2.8 g/cm ³)	Thick: 3 mm		Mass: 73.9 g
	Unspecified		Dia _{out} 80 mm		Mass: 1500 g
	Body tube	Aluminium (2.8 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 800 mm	Mass: 0 g
	Unspecified		Dia _{out} 75 mm		Mass: 750 g
	Tube coupler	Fiberglass (1.85 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 60 mm	Mass: 0 g
	Body tube	Aluminium (2.8 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 250 mm	Mass: 0 g
	Tube coupler	Fiberglass (1.85 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 60 mm	Mass: 0 g
	Tube coupler	Fiberglass (1.85 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 60 mm	Mass: 0 g
	Body tube	Aluminium (2.8 g/cm ³)	Dia _{in} 80 mm Dia _{out} 80 mm	Len: 200 mm	Mass: 0 g
	Trapezoidal fin set (4)	Aluminium (2.8 g/cm ³)	Thick: 5 mm		Mass: 562 g

