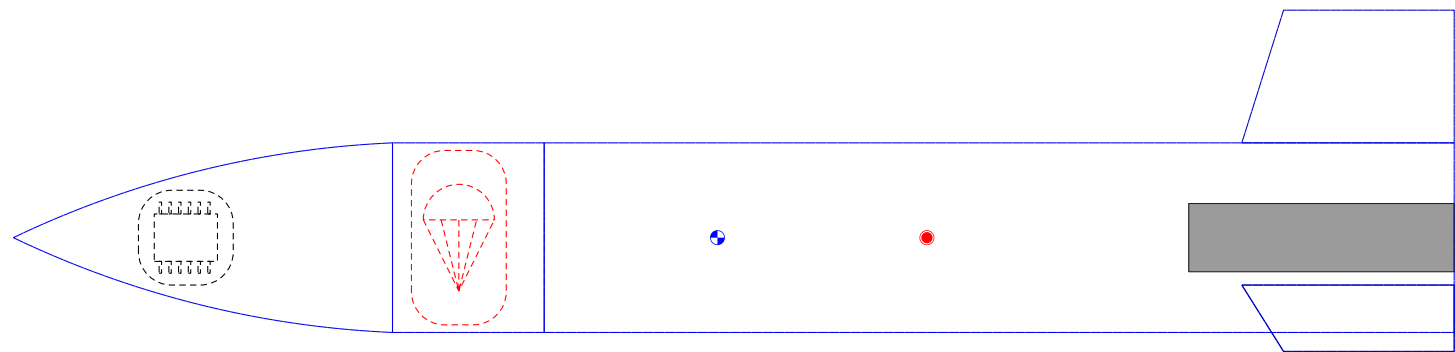


Rocket Design









Rocket
Stages: 2
Mass (with motors): 241 g
Stability: 1.1 cal / 14.5 %
CG: 18.6 cm
CP: 24.1 cm

; D3-0

Altitude	27.2 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Flight Time	9.34 s	D3	3 N	6 s	9.01 N	18.1 Ns	1.27:1	17 g	18/70 mm
Time to Apogee	4.2 s								
Optimum Delay	-2.06 s								
Velocity off Pad	6.34 m/s								
Max Velocity	28.9 m/s								
Velocity at Deployment	26.5 m/s								
Landing Velocity	5.98 m/s								

Parts Detail

Stage: SustainerStage: Stage

	Nose Cone	PLA - 100% infill (1.25 g/cm³)	Ogive	Len: 10 cm	Mass: 24.2 g
	Mass Component		Dia _{out} 2.5 cm		Mass: 60 g
	Body Tube	PLA - 100% infill (1.25 g/cm³)	Dia _{in} 4.6 cm Dia _{out} 5 cm	Len: 4 cm	Mass: 15.1 g
	Parachute	Ripstop nylon (67 g/m²)	Dia _{out} 40 cm	Len: 2.5 cm	Mass: 11.7 g
	Shroud Lines	Elastic cord (round 2 mm, 1/16 in) (1.8 g/m)	Lines: 6	Len: 30 cm	
	Body Tube	PLA - 100% infill (1.25 g/cm³)	Dia _{in} 4.6 cm Dia _{out} 5 cm	Len: 24 cm	Mass: 90.5 g
	Freeform Fin Set (3)	PLA - 100% infill (1.25 g/cm³)	Thick: 0.3 cm		Mass: 11.8 g

