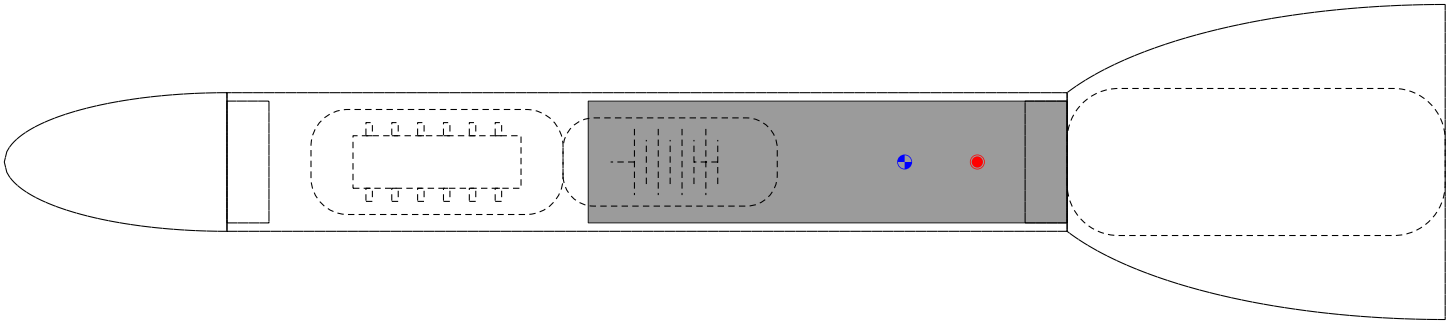


Rocket Design









Rocket  
Stages: 1  
Mass (with motor): 314 g  
Stability: 0.231 cal  
CG: 21.4 cm  
CP: 23.2 cm

E16-4

Altitude	317 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	23.5 s	E16	17.3 N	1.94 s	26.4 N	33.6 Ns	5.62:1	40 g	29/114 mm
Time to Apogee	8.48 s								
Optimum Delay	6.47 s								
Velocity off Pad	10.5 m/s								
Max Velocity	85.9 m/s								
Velocity at Deployment	N/A								
Landing Velocity	24 m/s								

Parts Detail

Sustainer

	Nose cone	Polycarbonate (Lexan) (1.2 g/cm³)	Ellipsoid	Len: 5.3 cm	Mass: 7 g
	Body tube	Polycarbonate (Lexan) (1.2 g/cm³)	Dia <sub>in</sub> 2.9 cm Dia <sub>out</sub> 3.3 cm	Len: 20 cm	Mass: 43 g
	Battery		Dia <sub>out</sub> 2.1 cm		Mass: 43 g
	Avionics		Dia <sub>out</sub> 2.5 cm		Mass: 20 g
	Transition	Polycarbonate (Lexan) (1.2 g/cm³)	Fore Dia: 3.3 cm Aft Dia: 7.5 cm	Len: 9 cm	Mass: 46 g
	Gimbal		Dia <sub>out</sub> 3.5 cm		Mass: 73 g



