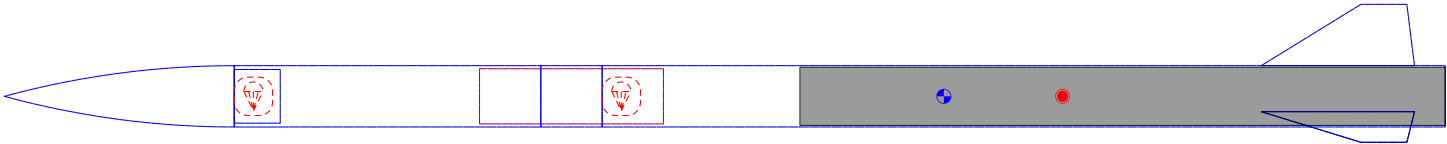


# Rocket Design



Rocket  
Stages: 1  
Mass (with motor): 1249 g  
Stability: 1.94 cal  
CG: 61.3 cm  
CP: 69 cm

## 819-J354-WH-16A-13

		Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Altitude	3388 m	819-J354-WH-16A	353 N	2.32 s	520 N	819 Ns	28.84:1	458 g	38/421 mm
Flight Time	179 s								
Time to Apogee	20.2 s								
Optimum Delay	17.7 s								
Velocity off Pad	28.8 m/s								
Max Velocity	593 m/s								
Velocity at Deployment	22.8 m/s								
Landing Velocity	9.11 m/s								

## I170-Classic-14

		Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Altitude	2023 m	I170-Classic	160 N	2.36 s	207 N	379 Ns	18.92:1	188 g	38/245 mm
Flight Time	131 s								
Time to Apogee	17 s								
Optimum Delay	14.4 s								
Velocity off Pad	17.9 m/s								
Max Velocity	366 m/s								
Velocity at Deployment	21 m/s								
Landing Velocity	8.42 m/s								

