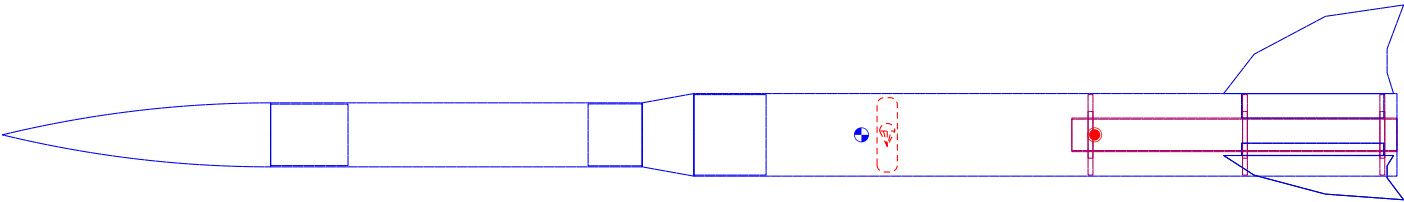


Rocket Design



bfhpr
Stages: 1
Mass (Empty): 1156 g
Stability: 2.82 cal / 16.6 %
CG: 1057 mm
CP: 1344 mm

H110-9

		Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Altitude	2307 ft	269H11 0-14A	106 N	2.54 s	125 N	271 Ns	7.32:1	153 g	38/186 mm
Flight Time	121 s								
Time to Apogee	11.6 s								
Optimum Delay	8.92 s								
Velocity off Pad	11.3 m/s								
Max Velocity	143 m/s								
Velocity at Deployment	2.63 m/s								
Landing Velocity	6.36 m/s								











H225-9

		Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Altitude	2349 ft	273H22 5-14A	229 N	1.2 s	264 N	274 Ns	16.11:1	124 g	38/186 mm
Flight Time	122 s								
Time to Apogee	10.8 s								
Optimum Delay	9.77 s								
Velocity off Pad	17.4 m/s								
Max Velocity	169 m/s								
Velocity at Deployment	7.47 m/s								
Landing Velocity	6.36 m/s								

H73-8

Parts Detail

Stage: Stage

	Nose cone	Polystyrene PS (1.05 g/cm ³)	Ogive	Len: 330 mm	Mass: 142 g
	Body tube	Paper (1.12 g/cm ³)	Dia _{in} 76.2 mm Dia _{out} 78.7 mm	Len: 457 mm	Mass: 158 g
	Transition	Polystyrene PS (1.05 g/cm ³)	Fore Dia: 78.7 mm Aft Dia: 102 mm	Len: 63.5 mm	Mass: 142 g
	Body tube	Paper (1.12 g/cm ³)	Dia _{in} 99.1 mm Dia _{out} 102 mm	Len: 865 mm	Mass: 388 g
	Motor Mount	Paper, kraft glassine, LOC tube avg (0.855 g/cm ³)	Dia _{in} 38.6 mm Dia _{out} 41.3 mm	Len: 400 mm	Mass: 57.2 g
	Centering ring	Aircraft plywood (LOC) (0.725 g/cm ³)	Dia _{in} 57.4 mm Dia _{out} 99.1 mm	Len: 6 mm	Mass: 22.3 g
	Centering ring	Aircraft plywood (LOC) (0.725 g/cm ³)	Dia _{in} 57.4 mm Dia _{out} 99.1 mm	Len: 6 mm	Mass: 22.3 g
	Centering ring	Aircraft plywood (LOC) (0.725 g/cm ³)	Dia _{in} 57.4 mm Dia _{out} 99.1 mm	Len: 6 mm	Mass: 22.3 g
	Parachute	Rip stop nylon (0.001 g/m ²)	Dia _{out} 914 mm	Len: 25 mm	Mass: 85 g
	Shroud Lines	1/16 In. braided nylon (1.02 g/m)	Lines: 8	Len: 914 mm	
	Fin set (3)	Aircraft plywood (LOC) (0.725 g/cm ³)	Thick: 3 mm		Mass: 134 g