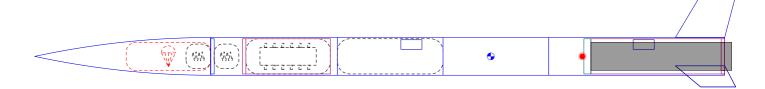
Rocket Design



Rocket Stages: 1

Mass (with motor): 1295 g

Stability: 2.43 cal CG: 648 mm CP: 778 mm

E17-P

Altitude	31.8 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	9.09 s	E17	20.9 N	1.71 s	50.9 N	36.3 Ns	1.79:1	140 g	40/200
Time to Apogee	3.39 s								mm
Optimum Delay	1.35 s								
Velocity off Pad	8.01 m/s								
Max Velocity	18 m/s								
Velocity at Deployment	3.62 m/s								
Landing Velocity	6.18 m/s								

G146-P

Altitude	285 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	52 s	G146	153 N	0.716 s	203 N	110 Ns	12.12:1	118 g	40/200
Time to Apogee	7.76 s								mm
Optimum Delay	7.09 s								
Velocity off Pad	13.5 m/s								
Max Velocity	80.8 m/s								
Velocity at Deployment	8.87 m/s								
Landing Velocity	6.5 m/s								

G106-P

		l							
Altitude	297 m	Motor	Avg Thrust	Burn Time	Max Thrust		Thrust to Wt	Propellant Wt	
Flight Time	54.1 s	G106	110 N	1.05 s	139 N	115 Ns	8.66:1	128 g	40/200
Time to Apogee	8.06 s								mm
Optimum Delay	7.08 s								
Velocity off Pad	11.1 m/s								
Max Velocity	81.4 m/s								
Velocity at Deployment	11.6 m/s								
Landing Velocity	6.53 m/s								
G108-P		-							
Altitude	278 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	51.2 s	G108	112 N	0.986 s	139 N	110 Ns	8.81:1	126 g	40/200
Time to Apogee	7.85 s								mm
Optimum Delay	6.88 s								
Velocity off Pad	11.4 m/s								
Max Velocity	78.3 m/s								
Velocity at Deployment	10.8 m/s								

6.51 m/s

Landing Velocity

Parts Detail

Sustainer

Iass: 34.9 g
lass: 0.8 g
lass: 0.8 g
lass: 68.5 g
fass: 0.8 g
lass: 200 g
lass: 24 g
lass: 12.8 g
lass: 57.1 g
fass: 100 g
lass: 2.6 g
lass: 57.1 g
lass: 95.2 g
fass: 50.5 g
lass: 2.6 g
lass: 38 g
lass: 25.5 g
lass: 4.59 g

