

F50T-6

Altitude 1083 ft
Flight Time 63.3 s
Time to Apogee 7.86 s
Optimum Delay 6.52 s
Velocity off Pad 66.3 ft/s
Max Velocity 307 ft/s
Velocity at Deployment 18.2 ft/s
Landing Velocity 19.5 ft/s

Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
F50T	54.5 N	1.26 s	73.8 N	68.7 Ns	9.04:1	33.6 g	29/98 mm







F32T-6

Altitude 867 ft
Flight Time 52.9 s
Time to Apogee 7.64 s
Optimum Delay 5.63 s
Velocity off Pad 56.1 ft/s
Max Velocity 243 ft/s
Velocity at Deployment 14.7 ft/s
Landing Velocity 19.2 ft/s

Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
F32T	34.2 N	1.65 s	58.4 N	56.7 Ns	5.92:1	25.8 g	24/95 mm

Parts Detail

Stage: Sustainer

	Nose Cone	ASA - 20% infill (0.21 g/cm ³)	Haack series	Len: 20 cm	Mass: 35.5 g
	Mass Component		Dia _{out} 2.5 cm		Mass: 10 g
	Body Tube	Cardboard (0.68 g/cm ³)	Dia _{in} 6.2 cm Dia _{out} 6.6 cm	Len: 45.7 cm	Mass: 133 g
	Tube Coupler BalsaMachining C80-4	Paper, spiral kraft, BMS C80, bulk (1.12 g/cm ³)	Dia _{in} 6.28 cm Dia _{out} 6.49 cm	Len: 10.2 cm	Mass: 23.2 g
	Shock Cord	Elastic cord (round 2 mm, 1/16 in) (1.8 g/m)		Len: 40 cm	Mass: 0.72 g
	Air Brakes		Dia _{out} 6.6 cm		Mass: 180 g
	Egg		Dia _{out} 6.6 cm		Mass: 57 g
	Rail Button	Delrin (1.42 g/cm ³)		Len: 0 cm	Mass: 0.827 g
	Body Tube	Cardboard (0.68 g/cm ³)	Dia _{in} 6.2 cm Dia _{out} 6.6 cm	Len: 15.2 cm	Mass: 41.7 g
	Parachute, plastic, preassembled, 18 in., Der Red Max, PN 035823 Estes parachute_18in, 035823	Polyethylene film, HDPE, 1.0 mil, bare (23.5 g/m ²)	Dia _{out} 45.7 cm	Len: 2.5 cm	Mass: 4.76 g
	Shroud Lines Estes parachute_18in, 035823	Carpet Thread (0.33 g/m)	Lines: 6	Len: 45.7 cm	
	Centering Ring Always Ready Rocketry CR-63/29	Plywood, Baltic birch, bulk (0.68 g/cm ³)	Dia _{in} 3.25 cm Dia _{out} 6.49 cm	Len: 0.635 cm	Mass: 10.7 g
	Centering Ring Always Ready Rocketry CR-63/29	Plywood, Baltic birch, bulk (0.68 g/cm ³)	Dia _{in} 3.25 cm Dia _{out} 6.49 cm	Len: 0.635 cm	Mass: 10.7 g
	Rail Button	Delrin (1.42 g/cm ³)		Len: 0 cm	Mass: 0.827 g
	Elliptical Fin Set (4)	Basswood (0.5 g/cm ³)	Thick: 0.3 cm		Mass: 11.8 g
	Parachute, plastic, preassembled, 18 in., Der Red Max, PN 035823 Estes parachute_18in, 035823	Polyethylene film, HDPE, 1.0 mil, bare (23.5 g/m ²)	Dia _{out} 45.7 cm	Len: 2.5 cm	Mass: 4.76 g
	Shroud Lines Estes parachute_18in, 035823	Carpet Thread (0.33 g/m)	Lines: 6	Len: 45.7 cm	

