

AEROTECH E28

CERTIFIED VALUES

Total Impulse: 40 newton-seconds
Delays: 2, 5, 8 seconds

Propellant Type: Composite
Propellant Mass: 18.4 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 93-December-23
Contest Use Date: 94-March-23

Certification Type: Model Rocket

STATIC TEST DATA

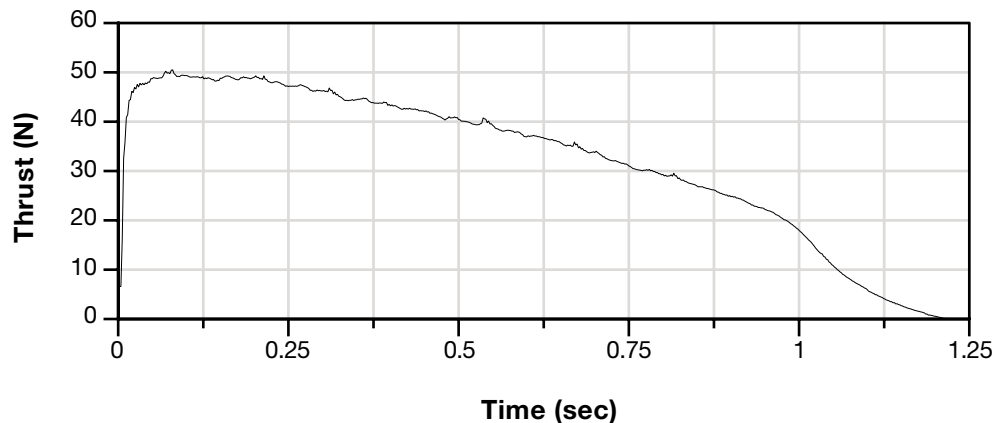
Date Tested: 92-August-30

Total Impulse: 39.69 newton-seconds (σ 0.27)
Peak Thrust: 50.52 newtons (σ 4.70)
Burn Time: 1.22 seconds (σ 0.03)
Average Thrust: 32.53 newtons

Mass After Firing: 30.6 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
2	2.03	54.0 g	454 g
5	4.87	54.4 g	301 g
8	7.48	55.3 g	201 g

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-24/40 Reload System and AeroTech E28 Reload Kit. No substitutions allowed.

; Aerotech E28 RASP.ENG file made from NAR published data
; File produced July 4, 2000
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.

E28	24	70	2-5-8	.0184	.0545	A
0.010	29.8620					
0.018	45.1390					
0.038	47.5620					
0.081	50.5200					
0.106	48.9530					
0.146	48.2630					
0.161	48.9530					
0.197	48.9530					
0.242	47.5620					
0.313	46.1800					
0.411	43.0570					
0.494	40.6240					
0.527	39.5830					
0.542	40.2740					
0.562	38.5420					
0.633	36.4600					
0.683	34.3770					
0.743	31.2440					
0.799	29.1620					
0.877	26.0380					
0.970	20.8320					
1.006	17.3590					
1.046	11.4620					
1.089	6.9430					
1.132	3.8190					
1.172	1.7350					
1.220	0.0000					

