

AEROTECH E12J-RC

CERTIFIED VALUES

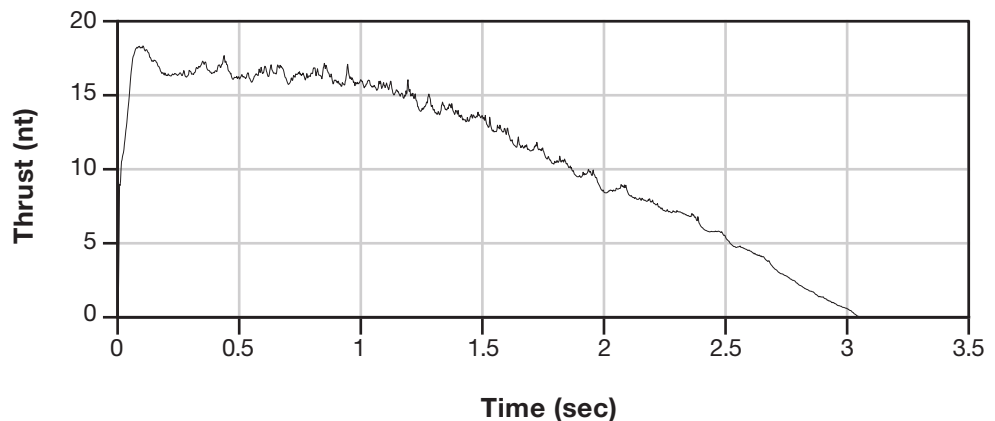
Total Impulse: 36 newton-seconds
Delays: None
Propellant Type: Composite
Propellant Mass: 30.3 grams
Casing Dimensions: 24 mm × 70 mm
Certification Date: 97-January-19
Contest Use Date: 97-April-19
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 96-December
Total Impulse: 34.22 newton-seconds (σ 1.89)
Peak Thrust: 18.33 newtons (σ 2.88)
Burn Time: 3.05 seconds (σ 0.32)
Average Thrust: 11.22 newtons
Mass After Firing: 33.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
None	None	59.4g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-RC 24/20-40 Reload System and AeroTech E12J-RC Reload Kit. No substitutions allowed.

; Aerotech E12JRC 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.

E12JRC 24 70 NONE .0303 .0594 A
 0.054 16.764
 0.095 18.330
 0.197 16.545
 0.313 16.654
 0.360 17.211
 0.401 16.316
 0.442 17.550
 0.476 16.206
 0.578 16.316
 0.666 16.764
 0.700 15.649
 0.768 16.316
 0.890 16.097
 1.019 15.649
 1.162 14.983
 1.230 14.983
 1.250 13.968
 1.291 14.754
 1.332 13.749
 1.373 14.197
 1.434 13.530
 1.488 13.749
 1.597 12.635
 1.726 11.401
 1.828 10.615
 1.889 9.613
 1.957 9.613
 1.998 8.495
 2.093 8.607
 2.277 7.042
 2.487 5.813
 3.050 0.000

