

# AEROTECH E7T-RC

## CERTIFIED VALUES

Total Impulse: 30 newton-seconds  
Delays: None

Propellant Type: Composite  
Propellant Mass: 17.1 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 94-August-28  
Contest Use Date: 94-November-26

Certification Type: Model Rocket

## STATIC TEST DATA

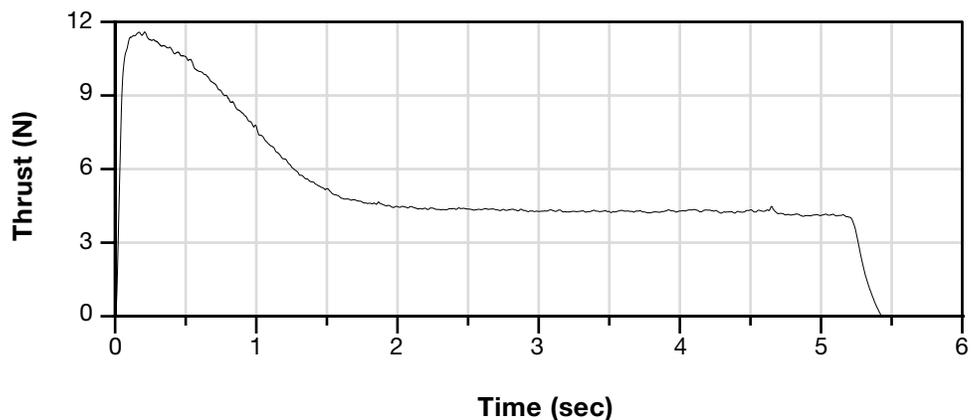
Date Tested: 94-August-27

Total Impulse: 29.35 newton-seconds ( $\sigma$  0.39)  
Peak Thrust: 11.58 newtons ( $\sigma$  0.44)  
Burn Time: 5.43 seconds ( $\sigma$  0.06)  
Average Thrust: 5.41 newtons

Mass After Firing: 29.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
None	None	48.4 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Uses AeroTech RMS-RC 24/20-40 Reload System and AeroTech E7T-RC Reload Kit. No substitutions allowed.

;; Aerotech E7TRC 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.

E7TRC 24 70 NONE .0171 .0484 A  
0.038 6.636  
0.063 10.056  
0.087 11.019  
0.134 11.420  
0.206 11.580  
0.312 11.149  
0.466 10.738  
0.667 9.777  
0.940 8.132  
1.223 6.281  
1.484 5.182  
1.709 4.701  
2.112 4.423  
2.776 4.279  
3.310 4.205  
3.926 4.266  
4.401 4.192  
4.638 4.258  
4.744 4.119  
5.124 3.979  
5.219 3.977  
5.266 3.156  
5.313 1.992  
5.360 0.965  
5.430 0.000

