

# ROCKETVISION E15

## CERTIFIED VALUES

Total Impulse: 40 newton-seconds  
Delays: 4, 7 seconds

Propellant Type: Composite  
Propellant Mass: 17.8 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 99-October-15  
Contest Use Date: 99-October-14

Certification Type: Model Rocket

## STATIC TEST DATA

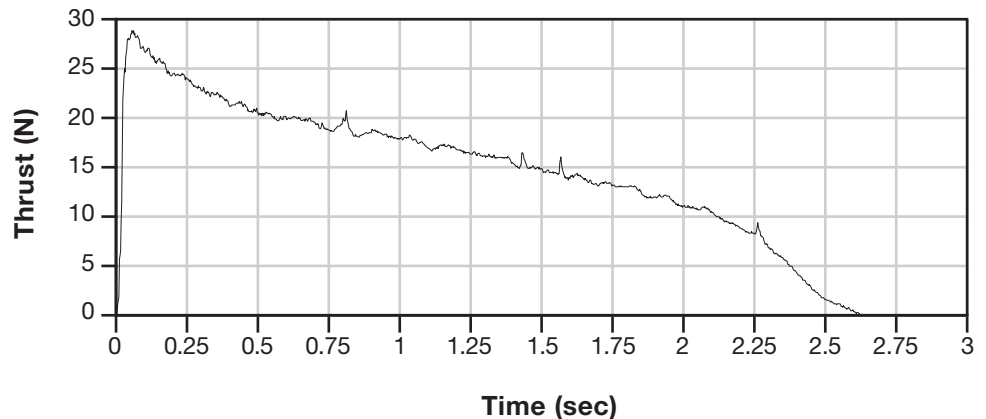
Date Tested: 95-September-3

Total Impulse: 39.76 newton-seconds ( $\sigma$  0.23)  
Peak Thrust: 28.84 newtons ( $\sigma$  2.11)  
Burn Time: 2.64 seconds ( $\sigma$  0.06)  
Average Thrust: 15.06 newtons

Mass After Firing: 25.3 grams

| Delay Time | Average Measured Delay | Initial Mass | Mfg Recommended Max Liftoff Weight |
|------------|------------------------|--------------|------------------------------------|
| 4          | 4.56                   | 50.2 g       | 454 g                              |
| 7          | 7.97                   | 50.0 g       | 269 g                              |

## TYPICAL THRUST-TIME CURVE



## REMARKS

AeroTech motor relabeled by Rocket Vision.

; RocketVision E15 RASP.ENG file made from NAR published data  
 ; File produced December 10, 2000  
 ; The total impulse, peak thrust and 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.

E15 24 70 4-7 .0201 .0501 RV  
 0.020 23.330  
 0.036 27.318  
 0.058 28.840  
 0.079 27.171  
 0.139 25.638  
 0.183 24.263  
 0.237 24.106  
 0.297 22.426  
 0.373 21.964  
 0.400 20.894  
 0.443 21.355  
 0.487 20.442  
 0.617 19.833  
 0.742 18.457  
 0.812 20.000  
 0.850 18.006  
 0.899 18.467  
 1.035 17.711  
 1.100 16.945  
 1.160 16.945  
 1.377 15.736  
 1.426 14.656  
 1.436 16.198  
 1.463 14.813  
 1.550 14.361  
 1.572 15.432  
 1.610 13.752  
 1.827 12.839  
 2.126 10.098  
 2.337 6.116  
 2.538 1.369  
 2.640 0.000

