

AEROTECH G12-RC

CERTIFIED VALUES

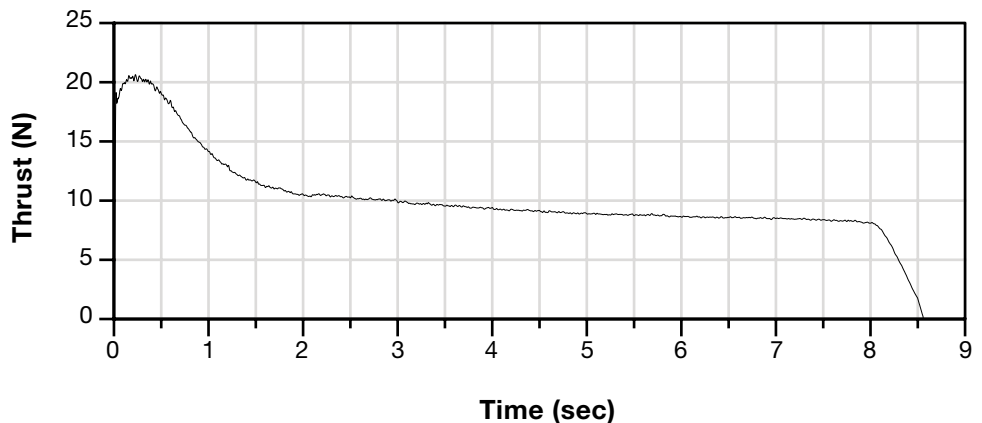
Total Impulse: 93 newton-seconds
Delays: None
Propellant Type: Composite
Propellant Mass: 51.1 grams
Casing Dimensions: 32 mm × 107 mm
Certification Date: 93-August-5
Contest Use Date: 93-November-1
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 92-February-22
Total Impulse: 87.22 newton-seconds (σ 1.18)
Peak Thrust: 20.64 newtons (σ 1.05)
Burn Time: 8.55 seconds (σ 0.33)
Average Thrust: 10.20 newtons
Mass After Firing: 77.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
None	None	131.0 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-RC 36/60-100 Reload System and AeroTech G12-RC Reload Kit. No substitutions allowed.

; Aerotech G12RC 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.

G12RC 32 107 P .0511 .1310 A
0.030 18.549
0.117 19.960
0.239 20.640
0.362 20.111
0.519 18.982
0.694 17.138
0.886 15.020
1.131 13.186
1.375 11.915
1.689 11.069
2.021 10.363
2.422 10.232
3.172 9.677
4.114 9.267
5.039 8.857
6.137 8.733
7.132 8.607
7.795 8.335
7.952 8.196
8.074 8.055
8.179 6.924
8.319 4.661
8.476 1.973
8.550 0.000

