

QUEST MICRO MAXX II

CERTIFIED VALUES

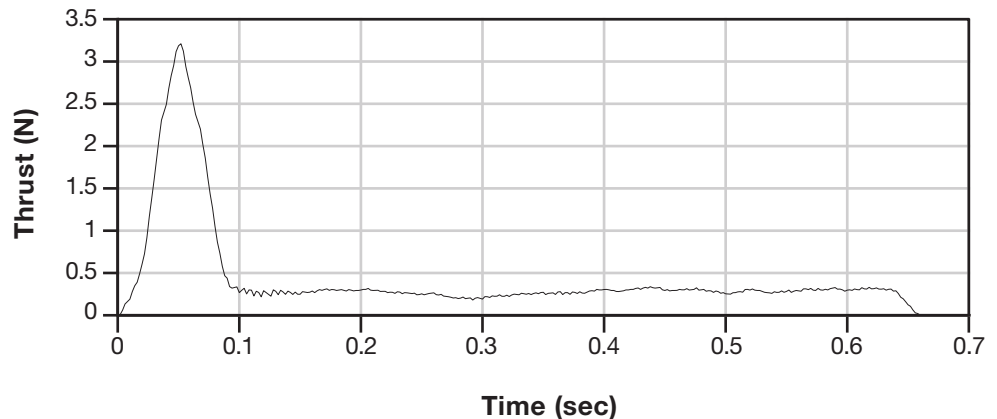
Total Impulse: 0.31 newton-seconds
Delays: NE, 1 second
Propellant Type: Black Powder
Propellant Mass: 0.50 grams
Casing Dimensions: 6 mm x 26 mm
Certification Date: July 7, 2001
Contest Use Date: Sept 5, 2001
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 01-July-6
Total Impulse: 0.30 newton-seconds (σ 0.02)
Peak Thrust: 3.21 newtons (σ 0.24)
Burn Time: 0.66 seconds (σ 0.03)
Average Thrust: 0.45 newtons
Mass After Firing: 0.5 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
1	0.89	1.2 g	

TYPICAL THRUST-TIME CURVE



REMARKS

The "NE" motor has 1 second of tracking smoke but no ejection charge.

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; QUEST MICROMAXX II RASP.ENG file made from NAR published data
; File produced Dec 29, 2001
; 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.

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MAXXII 6 26 1 .0005 .0012 Q
0.008 0.160
0.018 0.482
0.024 0.993
0.030 1.534
0.034 2.032
0.036 2.397
0.040 2.543
0.046 3.025
0.052 3.210
0.059 2.864
0.069 2.191
0.080 1.094
0.087 0.539
0.092 0.378
0.106 0.304
0.139 0.260
0.177 0.303
0.223 0.287
0.258 0.243
0.288 0.198
0.346 0.270
0.402 0.298
0.411 0.254
0.430 0.312
0.465 0.282
0.503 0.238
0.516 0.281
0.562 0.280
0.621 0.294
0.641 0.279
0.647 0.176
0.660 0.000

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