

# QUEST MICRO MAXX I

## CERTIFIED VALUES

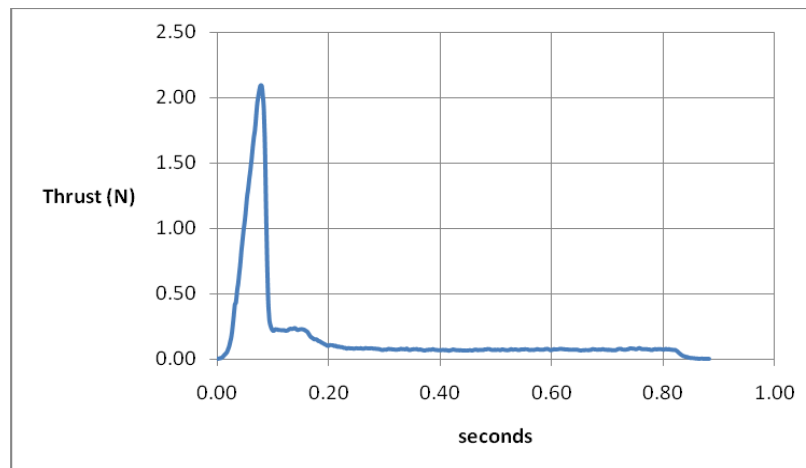
**Total Impulse:** 0.135 newton-seconds  
**Delays:** 1 second  
**Propellant Type:** Black powder  
**Propellant Mass:** 0.4 grams  
**Casing Dimensions:** 6mm x 26mm  
**Certification Date:** December 25, 1998  
**Certification Type:** Model Rocket

## STATIC TEST DATA

**Date Tested:** November 16, 2008  
**Total Impulse:** 0.1354 newton-seconds ( $\sigma$  0.01)  
**Peak Thrust:** 1.90 newtons ( $\sigma$  0.16)  
**Burn Time:** 0.83 seconds ( $\sigma$  0.03)  
**Average Thrust:** .163 newtons  
**Mass After Firing:** 0.8 grams

Delay Time (sec)	1
Average Measured Delay (sec)	.913
Initial Mass (gm)	1.07

## Typical Thrust-Time Curve



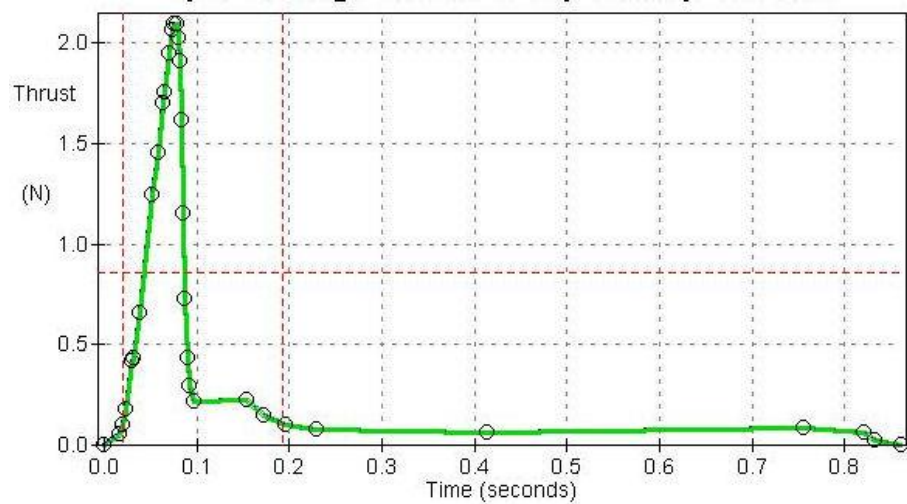
## REMARKS

	total impulse	peak thrust	burn time	average thrust	delay
q0013	0.13	1.901	0.804	0.162	1.51
q0014	0.123	1.754	0.87	0.141	0.74
q0015	0.142	2.054	0.797	0.178	0.81
q0016	0.15	2.093	0.804	0.186	0.81
q0017	0.131	1.894	0.855	0.153	0.89
q0018	0.134	1.694	0.833	0.16	0.72
standard deviation	0.01	0.158	0.03	0.016	0.298
average	0.135	1.898	0.827	0.163	0.913
Dec-98	0.18	1.23	0.82	0.22	1.07
standard deviation	0.01	0.12	0.03		

; @File: q0016.txt, @Pts-I: 815, @Pts-O: 31, @Sm: 0, @CO: 3%  
; @TI: 0.1497473, @Tla: 0.1488623, @Tle: -0.06%, @ThMax: 2.09889, @ThAvg: 0.1862529, @Tb: 0.804  
; Exported using ThrustCurveTool, www.ThrustGear.com

1/8A0.2 0 0 0.81 0.0 0.0 QUEST

0.016 0.0530363  
0.02 0.0985533  
0.024 0.176654  
0.03 0.415869  
0.032 0.434918  
0.038 0.657991  
0.052 1.247306  
0.058 1.453536  
0.064 1.700872  
0.066 1.755612  
0.07 1.951716  
0.074 2.06541  
0.076 2.09889  
0.078 2.09889  
0.08 2.02811  
0.082 1.911814  
0.084 1.619262  
0.086 1.151861  
0.088 0.728272  
0.09 0.433614  
0.092 0.292953  
0.098 0.217459  
0.154 0.224377  
0.172 0.150186  
0.196 0.0998567  
0.23 0.078602  
0.414 0.0625608  
0.7559 0.082111  
0.8219 0.0607562  
0.8339 0.0208536



Created using ThrustCurveTool, www.ThrustGear.com

