

AEROTECH M750W

CERTIFIED VALUES

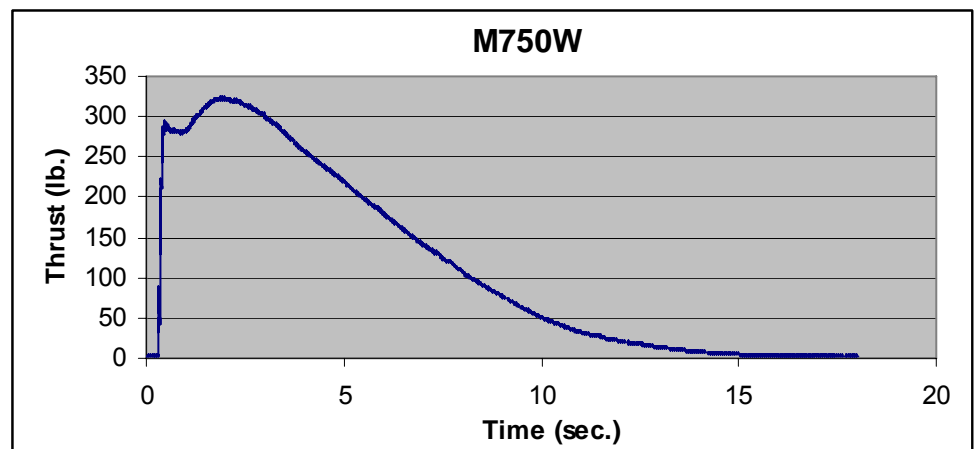
Total Impulse: 9325 Newton-seconds
Delays: Plugged
Propellant Type: White Lightning
Propellant Mass: 5300 grams
Casing Dimensions: 98mm × 732mm
Certification Date: June 28, 2007
Certification Type: High Power Rocket Motor

STATIC TEST DATA

Date Tested: June 16, 2007
Total Impulse: 9325 Newton-seconds (σ 190)
Peak Thrust: 1454 Newtons (σ 83)
Burn Time: 12.65 seconds (σ 0.27)
Average Thrust: 744 Newtons (σ 40)
Mass After Firing: 3236 grams

Delay Time(sec.)	P		
Average Measured Delay(sec.)	Plugged		
Initial Mass (gm.)	8776		

TYPICAL THRUST-TIME CURVE



REMARKS

Uses 98/10240 hardware



Data File #	Engine	Total Impulse	Max Thrust	Average Thrust	Burn Time	Delay Time	Initial Weight	Fired Weight
070616W16	M750W-P	9190.0	1395.0	715.8	12.84	P	8777.0	3238.0
070616W17	M750W-P	9459.0	1512.0	772.4	12.46	P	8775.0	3233.0
Average		9324.5	1453.5	744.1	12.65		8776.0	3235.5
Std Dev		190.212	82.731	40.022	0.269			
Std Dev %		2.0%	5.7%	5.4%	2.1%			

; @File: 98moon_combined.eng, @Pts-I: 34, @Pts-O: 31, @Sm: 0, @CO: 5%
; @TI: 9263.94, @TIa: 9095.36, @Tle: -0.09%, @ThMax: 1435.877, @ThAvg: 750.481, @Tb: 12.344
; Exported using ThrustCurveTool, www.ThrustGear.com
M750 98 732 Plugged 5.3 8.778 Aerotech

0.29 13.11159
0.298 16.38156
0.304 67.5898
0.318 233.802
0.328 290.078
0.348 710.194
0.354 731.816
0.36 703.231
0.362 722.249
0.386 1090.704
0.422 1239.818
0.446 1278.424
0.65 1254.032
0.94 1252.178
1.072 1269.139
1.2499 1336.637
1.4839 1389.294
1.8859 1435.877
2.3119 1422.019
2.9299 1355.959
3.8718 1165.948
6.0598 786.168
7.3077 578.723
7.3957 581.299
7.5897 537.062
8.6396 387.16
9.8736 238.859
10.7256 163.071
12.6515 71.6265
15.3414 17.25087
20.0002 0.0