

AEROTECH/KBA K750W

CERTIFIED VALUES

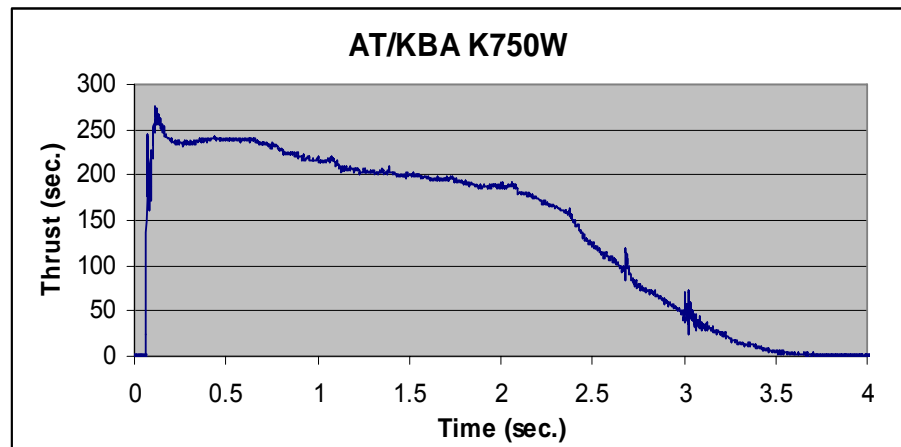
Total Impulse: 2423 Newton-seconds
Delays: Plugged
Propellant Type: White Lightning
Propellant Mass: 1315 grams
Casing Dimensions: 54mm × 727mm
Certification Date: July 11, 2007
Certification Type: High Power Rocket Motor

STATIC TEST DATA

Date Tested: June 16, 2007
Total Impulse: 2468 Newton-seconds (σ 7)
Peak Thrust: 1188 Newtons (σ 0.2)
Burn Time: 3.29 seconds (σ 0.13)
Average Thrust: 752 Newtons (σ 28)
Mass After Firing: 1137.0 grams

Delay Time(sec.)	Plugged		
Average Measured Delay(sec.)	P		
Initial Mass (gm.)	2636		

TYPICAL THRUST-TIME CURVE



REMARKS

Certified for use in AMW 54-2550 hardware only.
 No substitutions allowed



Data File		Total	Peak	Average	Burn	Delay	Initial	Fired
#	Engine	Impulse	Thrust	Thrust	Time	Time	Weight	Weight
070616W06	K750W-P	2463.0	1188.0	772.1	3.20	Plugged	2636.8	1135.6
070616W08	K750W-P	2473.0	1188.3	731.8	3.38	Plugged	2634.8	1138.0
Average		2468.0	1188.2	752.0	3.29		2635.8	1136.8
Std Dev		7.071	0.212	28.496	0.128			
Std Dev %		0.3%	0.0%	3.8%	3.9%			
Range	Indicated	Actual	Actual	Actual	Actual	Actual	Average	
	Plugged	Plugged	Plugged				Plugged	

; @File: AT_KBA_K750W.txt, @Pts-I: 2492, @Pts-O: 32, @Sm: 5, @CO: 5%
; @TI: 2452.98, @Tia: 2443.92, @Tie: 0.0%, @ThMax: 1160.504, @ThAvg: 748.751, @Tb: 3.264
; Exported using ThrustCurveTool, www.ThrustGear.com
K742 54 727 Plugged 1.315 2.636 RCS/AT

0.0 0.939871
0.036 13.18328
0.042 284.829
0.048 630.773
0.054 747.289
0.064 794.665
0.088 1084.409
0.098 1145.566
0.114 1155.025
0.176 1057.673
0.226 1040.525
0.616 1059.361
0.91 965.826
1.062 959.731
1.11 914.011
1.7119 871.563
1.8759 826.414
2.0439 837.754
2.3539 702.288
2.4399 578.164
2.5379 495.903
2.6519 417.741
2.6659 461.262
2.6979 381.419
2.7419 334.147
2.9779 194.9171
2.9899 236.319
2.9979 201.939
3.0099 235.51
3.0699 149.655
3.3019 57.4644
3.6599 0.0