

# AEROTECH/KBA K750W

## CERTIFIED VALUES

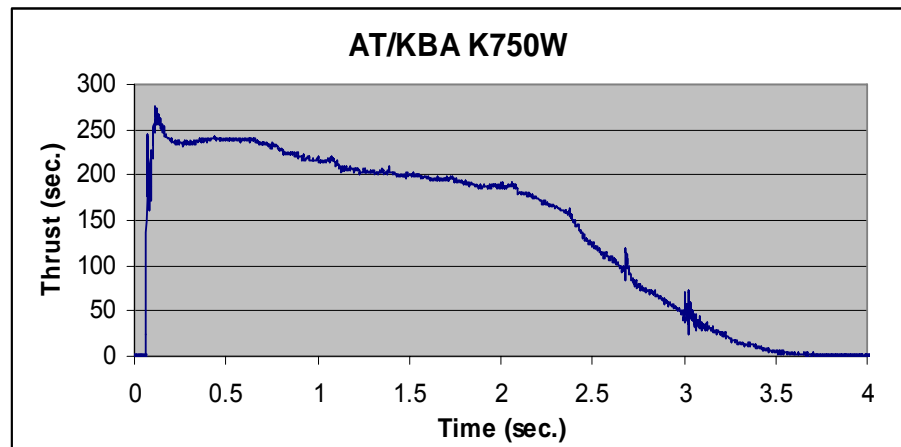
**Total Impulse:** 2468 Newton-seconds  
**Delays:** Plugged  
**Propellant Type:** White Lightning  
**Propellant Mass:** 1315 grams  
**Casing Dimensions:** 54mm × 727mm  
**Certification Date:** July 11, 2007  
**Certification Type:** High Power Rocket Motor

## STATIC TEST DATA

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

<b>Delay Time(sec.)</b>	<b>Plugged</b>		
<b>Average Measured Delay(sec.)</b>	P		
<b>Initial Mass (gm.)</b>	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%			
<b>Range</b>	<b>Indicated</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Average</b>	
	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