

AEROTECH F27

CERTIFIED VALUES

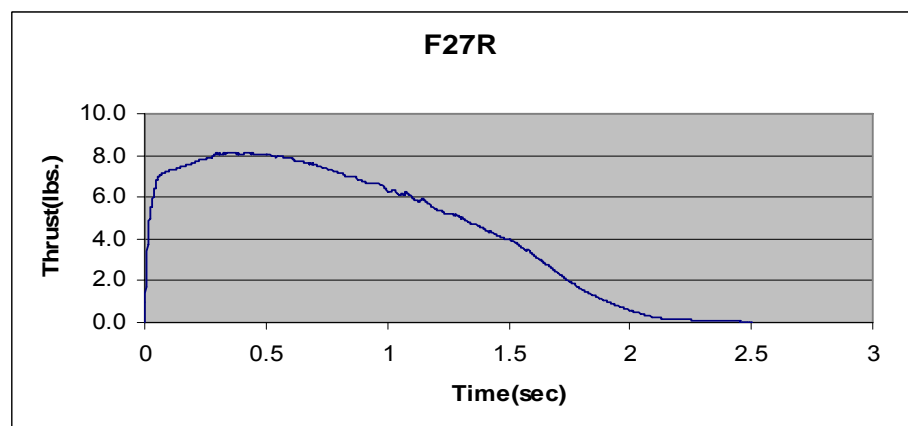
Total Impulse: 49.6 Newton-seconds
Delays: 4, 8 seconds
Propellant Type: Redline
Propellant Mass: 28.4 grams
Casing Dimensions: 29 mm × 83 mm
Certification Date: January 31, 2007
Certification Type: Model Rocket Motor

STATIC TEST DATA

Date Tested: June 3, 2006
Total Impulse: 49.6 Newton-seconds (σ 0.8)
Peak Thrust: 37.7 Newtons (σ 1.6)
Burn Time: 2.03 seconds (σ 0.09)
Average Thrust: 24.4 Newtons (σ 1.2)
Mass After Firing: 43 grams

Delay Time(sec.)	4	8	
Average Measured Delay(sec.)	3.70	7.47	
Initial Mass (gm.)	79	80	

TYPICAL THRUST-TIME CURVE



REMARKS

Certification is for both Single Use and LMS motors.



WRASP Data for Aerotech F27

; Exported using ThrustCurveTool, www.ThrustGear.com

; @File: 060603WF27Composite.txt, @Pts-I: 1001, @Pts-O: 32, @Sm: 5, @CO: 5%

; @TI: 49.5446, @TIIa: 49.299, @TIIe: 0.0%, @ThMax: 36.2491, @ThAvg: 24.1799, @Tb: 2.049

F27 29 83 4,8 0.0284 0.08 Aerotech

0.0	4.84718
0.0125	15.5374
0.0175	18.81827
0.025	22.5311
0.0325	25.2547
0.04	27.3204
0.0575	30.3657
0.0725	31.4597
0.0975	32.2507
0.265	35.0238
0.295	35.9203
0.4675	35.9684
0.59	35.065
0.8	32.0145
0.825	31.2773
0.8575	31.1102
0.9025	29.9308
0.955	29.7244
1.045	27.2951
1.085	27.2663
1.1175	25.9881
1.1475	26.0014
1.235	23.2853
1.28	22.9001
1.3425	21.0771
1.52	17.256
1.8075	6.85478
1.9175	4.16387
2.05	1.783863
2.1775	0.488016
2.4225	0.44385
2.425	0.0