TT-01-Jun-2010.txt

blade material: BeCu

blade thickness: 0.254 mm (0.01 inch) width at the base: 26 mm (1.0236 inch) width at the tip: 1e-07 mm (3.937e-09 inch)

blade length: 50 mm (1.9685 inch)

Beta (width at tip/width at base): 3.8462e-09

Alpha (1.3 - 1.45): 1.5

second moment of inertia (cross section): 3.5505e-14 m^4

effective sping constant: 74.4191 N/m

effective mass: 0.0626 kg

effective resonance frequency: 5.4875 Hz

deflection: 8.252 mm

maximum stress: 109.8307 MPa

pre-curved radius at rest: 0.15148 m

distance base to tip underload: 49.7733 mm

angle at blade tip is: 19.2736 deg suspension wire angle: 8.4307 deg

angle blade base is mounted (90 deg of wire to clamp): 10.8429 deg