

Model Parameter	Value
Mass of Leg, m_l	0.175 kg
Mass of Actuator, m_a	1.003 kg
Spring Constant, $\alpha_{nominal}$	5760 N/m
Natural Frequency, ω_n	$\sqrt{\frac{\alpha}{m_l+m_a}}$
Damping Ratio, $\zeta_{nominal}$	$1\text{e-}2 \frac{\text{N}}{\text{m/s}}$
Gravity, g	9.81 m/s ²
Actuator Stroke, $(x_a)_{\text{max}}$	0.008 m
Max. Actuator Velocity, $(\dot{x}_a)_{\text{max}}$	1.0 m/s
Max. Actuator Acceleration, $(\ddot{x}_a)_{\text{max}}$	10.0 m/s ²