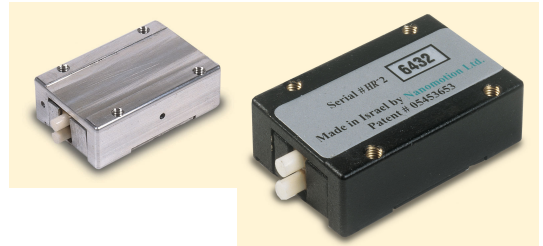


HR-2 Servo Motor

Performance

Maximum Allowable Velocity:	250 [mm/sec]
Dynamic Stall Force:	7 to 9 [N]
Static Holding Force	7 [N] (reference value)
Non-Energized Stiffness	1.4 to 1.8 [N/m]
Nominal Preload on Stage	36 [N]
Kf	1 to 2 [N/Volt command] - Driver and command dependant
Kfv	24 to 36 [N · sec/m]
Offset	1 to 2 [V] - Driver dependant
Attainable Resolution	Better than 100 nm – See application notes
Nominal Lifetime	20,000 hours under nominal operating conditions



Electrical

Maximal Voltage:	280Vrms, 39.6KHz, sine wave
Maximal Current consumption:	250 mA rms (Cable length dependant)
Maximal Power Consumption:	10W

Environmental

Ambient Temperature:	0 - 50°C
Storage:	-40°C - +70°C
Humidity:	0 - 80% non condensing
Vacuum level (high-vacuum motors):	10 ⁻⁷ Torr (guaranteed only after baking)
Vacuum level (ultra-high-vacuum motors):	10 ⁻¹⁰ Torr (guaranteed only after baking)
Maximal Baking Temperature (vacuum)	120°C (140°C for ultra high vacuum motor)

Physical Dimensions

Length:	40.5mm
Width:	25.7mm
Height:	12.7mm
Weight:	40 g high & ultra high vacuum motors 60g standard motor

