

### ST Motor

#### Performance

|                             |   |
|-----------------------------|---|
| Maximum Allowable Velocity: | 250 [mm/sec]                                    |
| Dynamic Stall Force:        | 1.3 [N]   |
| Static Holding Force        | 1.3 [N] (reference value)                       |
| Non-Energized Stiffness     | 0.15 [N/ $\mu$ ]                                |
| Nominal Preload on Stage    | 9 [N]   |
| Offset                      | 2 [V] - Driver dependant                        |
| Attainable Resolution       | Better than 50 nm – See application notes       |
| Nominal Lifetime            | 20,000 hours under nominal operating conditions |



#### Electrical

|                              |                                     |
|------------------------------|-------------------------------------|
| Maximal Voltage:             | 170Vrms, sine wave                  |
| Maximal Current consumption: | 80 mA rms ( Cable length dependant) |
| Maximal Power Consumption:   | 3.5W                                |

#### Environmental

|                      |  |
|----------------------|--|
| Ambient Temperature: | 0 - 25°C                                       |
| Storage:             | -40°C - +70°C                                  |
| Humidity:            | 0 - 80% non condensing                         |
| Vacuum Compatibility | 10 <sup>-7</sup> Torr. Guaranteed after baking |

#### Physical Dimensions

|         |        |
|---------|--------|
| Weight: | 5.5 gr |
| Height: | 6.1mm  |
| Length: | 21.9mm |
| Width:  | 22.8mm |

