

NA-025-0518-150-SS

FlexFrame PiezoActuator™



Description

DSM's NA series actuators are direct-drive piezoelectric actuators integrated into a protective metallic frame. The frame is typically a monolithic piece of stainless steel or titanium alloy with a flexure-based expansion component. The flexure minimizes the resistance that the frame might impart to the piezoelectric actuation.



Specifications

| | | Units | Tolerance |
|------------------------------|-------------------------|-------|-----------|
| Motion Direction | Expanding | | |
| Nominal Travel, 0V to 150V | 20 | μm | Min 17 |
| Nominal Travel, -30V to 150V | 25 | μm | Min 21 |
| Nominal Stiffness | 60 | N/μm | Min 51 |
| Unloaded Resonant Frequency | 8000 | Hz | ±15% |
| Blocked Force* | 1200 | N | |
| Capacitance | 1.60 | μF | ±20% |
| Material | Stainless Steel | | |
| Mass** | 20 | g | |
| Electrical Interface | Flying leads | | |
| Mechanical Interface | Single M3x0.5 on center | | |
| Height | 13 | mm | |
| Width | 10 | mm | |
| Depth | 28 | mm | |

* Blocked force calculated as [Stiffness x Travel Range at 0V to 150V]

** Mass stated for reference

Options

- Integrated Position Sensor
- Vacuum Compatibility
- Custom Mounting Holes
- Custom wire lengths and connectors
- Non-Magnetic compatibility