SPACECRAFT SYSTEMS

0.2 N Single-Component Thruster Assembly

The 0.2 N Single-Component Thruster is a key actuator for satellite attitude and orbit control. Designed with a compact structure and high efficiency, it ensures precise thrust performance and high reliability. The thruster employs a low-friction valve design to extend operational life and features advanced micro-scale fabrication and long-life sealing technology, making it ideal for micro- and small-satellite propulsion applications.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Dimensions (mm)	Φ48 × 92
Mass (g)	175 ± 10
Propellant	Hydrazine
Specific Impulse	190 s
Design Life	5 years
Valve Drive Voltage	28 ± 3 V DC

Quick Overview

The 0.2 N Single-Component Thruster is a key actuator for satellite attitude and orbit control. Designed with a compact structure and high efficiency, it ensures precise thrust performance and high reliability. The thruster employs a low-friction valve design to extend operational life and features advanced micro-scale fabrication and long-life sealing technology, making it ideal for micro- and small-satellite propulsion applications.

Key Specifications

Parameter	Value
Dimensions (mm)	Φ48 × 92
Mass (g)	175 ± 10
Propellant	Hydrazine
Specific Impulse	190 s
Design Life	5 years
Valve Drive Voltage	28 ± 3 V DC

Key Features

- Precision thrust control.
- Electromagnetic valve with frictionless operation and high reliability.
- Lightweight, compact, and low power consumption.
- Excellent adaptability to space environments.

Applications

- Used for **micro-satellite attitude and orbit control**.

Documentation & Resources

- Technical Specifications
- Applications