

# ST-25 PRODUCT SHEET



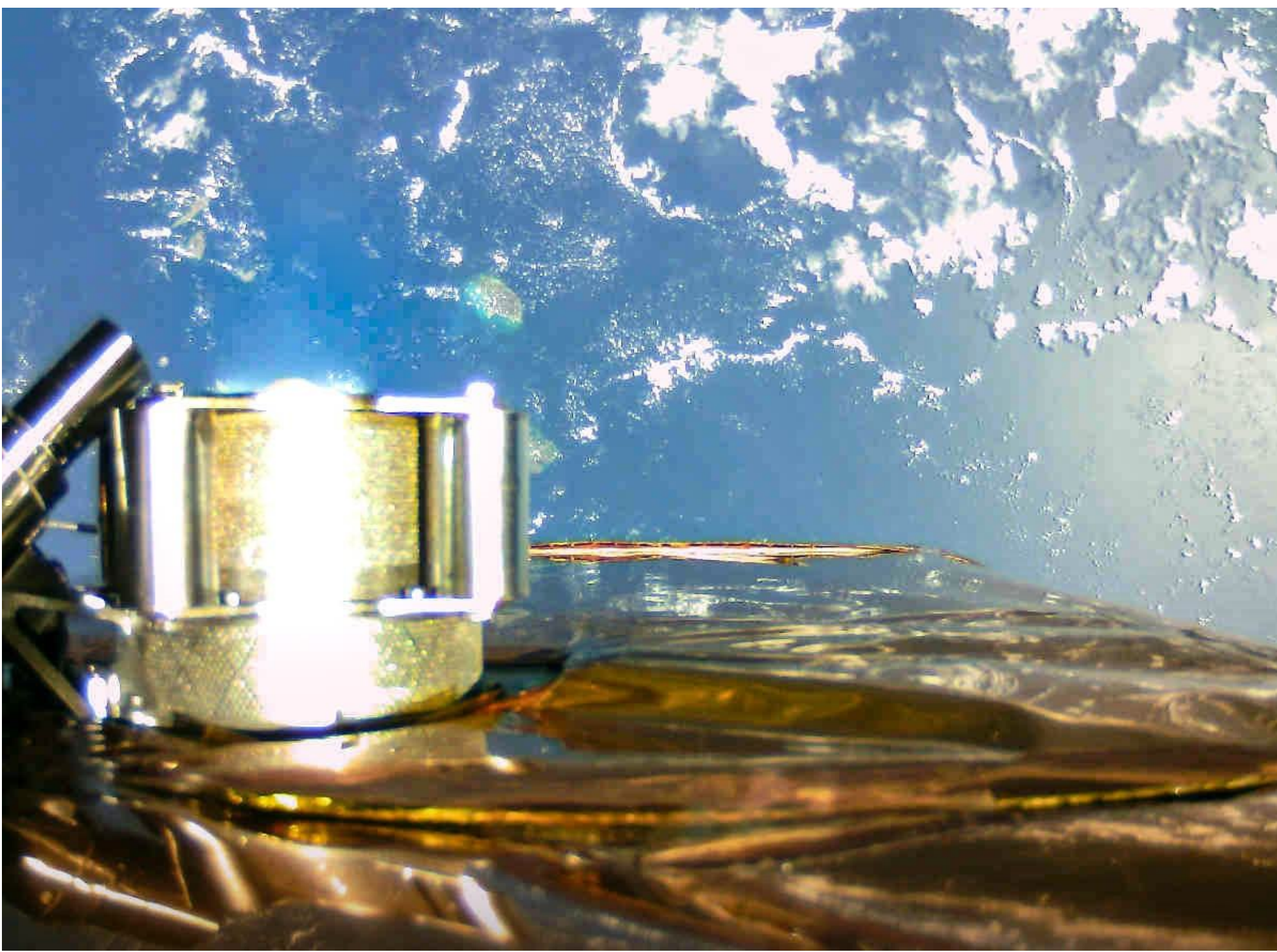
The ST-25 is a Hall-effect thruster designed for small satellite missions, where efficiency, reliability, and low system complexity are essential. It provides stable low-thrust propulsion with high specific impulse, enabling precise orbit control and long-duration operation.

The thruster incorporates a permanent magnet in the central core, simplifying the magnetic circuit and reducing system complexity while maintaining robust and efficient performance. Heated cathodes are used to ensure reliable ignition and stable operation throughout the mission.

The ST-25 is designed for LEO satellite applications and is well suited for constellations requiring cost-effective and scalable propulsion solutions. Its architecture enables efficient production and integration, making it a practical choice for modern small satellite platforms.



## Technical Information



|                                   |                          |
|-----------------------------------|--------------------------|
| Propellant                        | Xenon, Krypton           |
| Total power consumption, W        | 100 – 250                |
| Thrust, mN                        | 5 – 15                   |
| Specific impulse, s               | 950 – 1500               |
| Total Impulse, kN•s               | Up to 75                 |
| Efficiency, %                     | Up to 40                 |
| Mass (including two cathodes), kg | 1                        |
| Dimensions, mm                    | 123 x 101 x 72.5         |
| Cathode type                      | Heated hollow cathode(s) |
| TRL Level                         | 9                        |