

ASSET

Retro-2

PROFILE

LEO qualified Laser Retroreflector (LRR) for precision orbit determination.

MISSION BRIEFING

The Foundational Retro-2 laser retroreflector enables high-precision tracking of satellites with Satellite Laser Ranging (SLR) up to 1400km orbits for missions with a wide array of challenging CONOPS. The Retro-2 has a larger angle of acceptance than the Retro-1 and a larger effective optical cross section whilst maintaining a simple lightweight design.

Developed in collaboration with ESA to ECSS standards, the Retro-2 is built and qualified to ensure performance and resilience over a wide array of mission profiles and has TRL 9 flight heritage.

DATA

Mass 50g

Dimensions 54.2 x 54 x 20 mm

Angle of Acceptance 160°

Maximum Altitude 1400km

Thermal Vacuum Min Temp -180°C Max Temp +165°C

Random Vibration 24.47gRMS @ 20-2000Hz

Shock profile:

Frequency (Hz)	Acceleration (g)
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100	20
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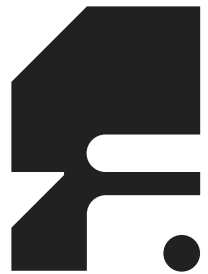
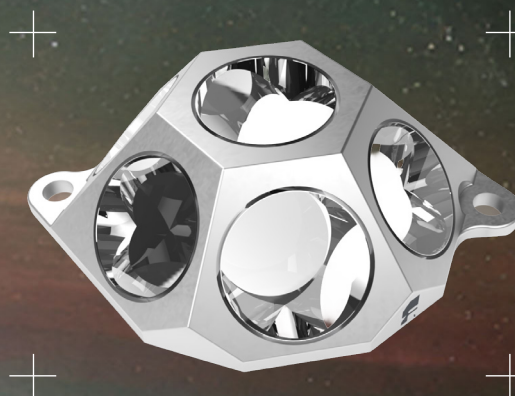
2000	2000
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10000	2000
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VECTOR SPECS (mm)



IMAGE CAPTURE



this is foundational.

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