

ASSET

Retro-1

PROFILE

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

MISSION BRIEFING

The Foundational Retro-1 laser retroreflector enables high-precision tracking of satellites with Satellite Laser Ranging (SLR) up to 800km orbits for missions with a wide array of challenging CONOPS. The Retro-1 has a simple lightweight design which requires no power or data from the host satellite.

The Retro-1 is built and qualified to ensure performance and resilience over a diverse range of mission profiles and has TRL 9 flight heritage.

DATA

Mass 20g

Dimensions 40 x 40 x 13.5mm

Angle of Acceptance 120°

Maximum Altitude 800km

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

Random Vibration 14.47gRMS @ 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)

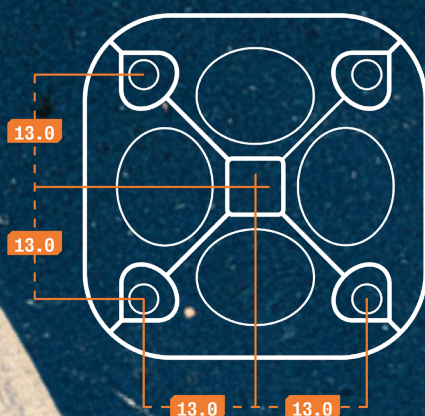
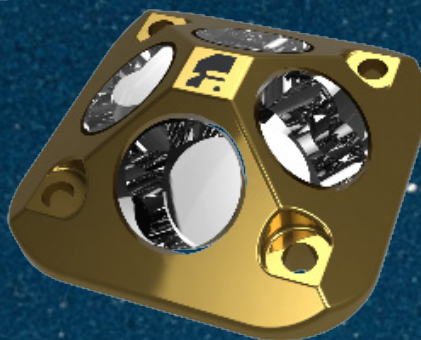


IMAGE CAPTURE



this is foundational.

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