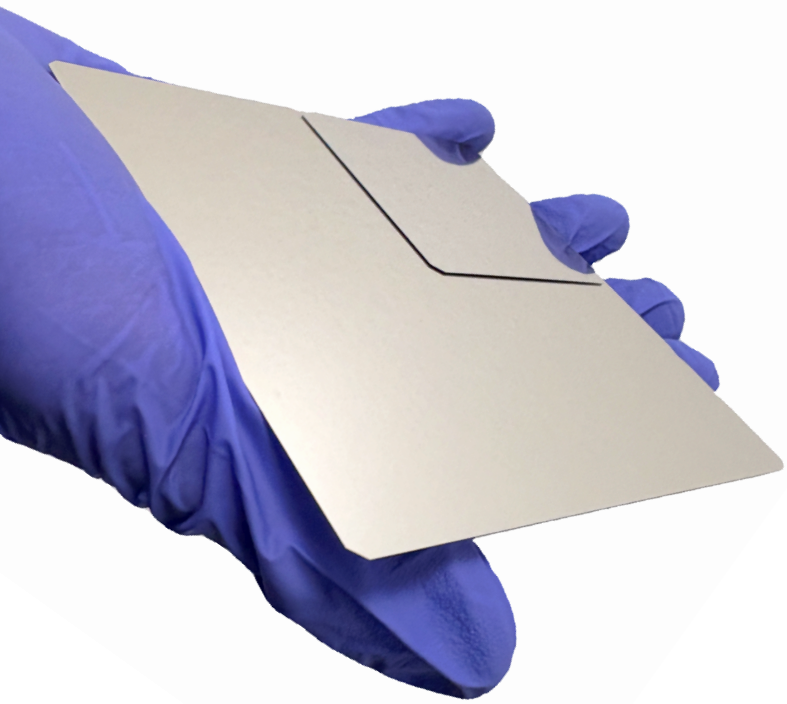
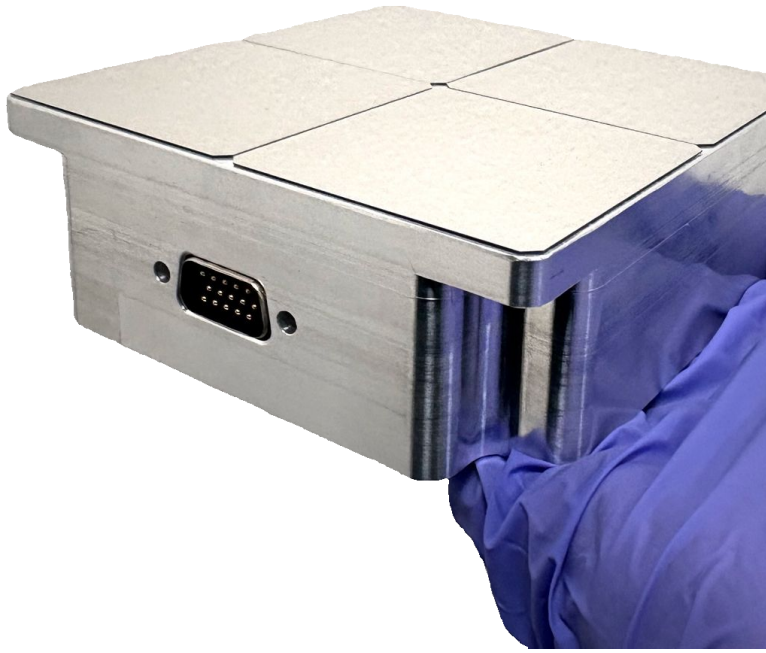
SQUID3 SPACE

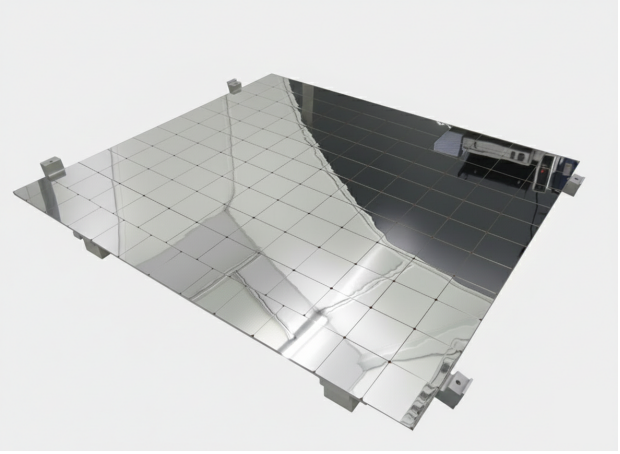
SQ-2 Optical Solar Reflectors

Offering thermal control, radiation and charge protection for GEO Satellites

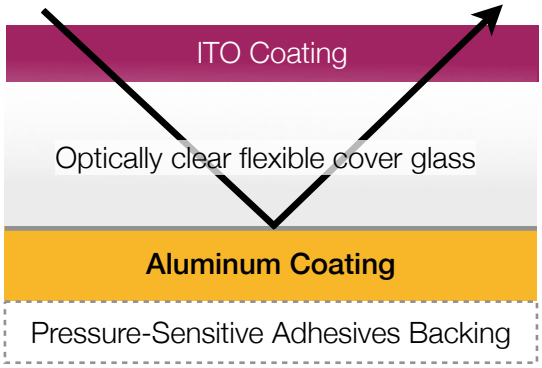




Optical Solar Reflectors (OSRs) are the ultimate thermal management solution for safeguarding your satellite against the extreme temperatures of space. Engineered with spaceflight proven materials, SQUID3 OSRs offer unmatched thermal control capability by reflecting intense solar radiation while maximizing internal heat radiation. This ensures your satellite operates within optimal temperature ranges, guaranteeing peak performance and extended mission life. Embrace the power of OSRs and elevate the reliability and durability of your space missions.



SQ-2 OSR Tiles with Flexible, Radiation-resistant, Ceria-doped Borosilicate Glass



(Not to scale)

Descriptions

Based on ceria-doped borosilicate glass, certified for GEO missions and produced at high volume (10^3 – 10^4 tiles), available in standard 2 x 2 in (50 x 50 mm) and 4 x 4 in (100 x 100 mm) thin tiles.

Applications

- Best alternative to Silver Teflon tapes for MEO, GEO and other high-radiation mission orbits
- Compatible with 3M 966 PSA, 3M 9703 PSA, and space-grade silicone epoxies.
- Proton and electron radiation test data available upon request from the glass manufacturer (NDA required)

Technical Data

Size	2 x 2 or 4 x 4	inch	
Thickness	150	µm	
Young's Modulus	10,153	kpsi	
Poisson's Ratio	0.216		
Weight	380	g/m^2	
Deposition Thickness	1000	Å	±100
Solar Absorptance	0.15	-	ASTM E906
Infrared Emittance	>0.75	-	ASTM E408
ITO Surface Resistivity	10^2 to 10^3	Ω/sq	
Outgassing (TML)	<1.00	%	ASTM E 595
Outgassing (CVCM)	<0.1	%	ASTM E 595

Version 2026/03
SQUID3 reserves the right to make changes in design or specification at any time and without notice.
For additional technical and sales information, please contact warren@squid3.space
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