



L3HARRIS®
FAST. FORWARD.

S-BAND FOLDED RIB REFLECTOR

Large-aperture reflector for high-gain applications

L3Harris' 12 meter Folded Rib Reflector is a unique large-aperture configuration for improved performance on mobile satellite services and synthetic aperture radar missions.

L3Harris' flight-proven, low-risk Folded Rib Reflector has been integrated with numerous spacecraft. The reflectors have been used from UHF to S band.

We apply fabrication and surface-shaping processes based on nearly 50 years of reflector heritage to streamline production and minimize development risk for our customers.

L3Harris has engineered first-of-their-kind payloads that meet and exceed the needs of our customers for more than 50 years. We have earned our position as the most experienced unfurlable mesh reflector manufacturer by continually pushing the boundaries of space antenna technology. Today, we are the number one provider of large high-accuracy mesh reflectors, with more than 90 antennas on orbit.



PERFORMANCE PARAMETERS

PARAMETER	SPECIFICATION
Frequency of Operation	S band
Deployed Geometry	
Projected Diameter	12 m
Focal Length	7.8 m
Center Offset	8.1 m
Surface Accuracy on Orbit	
Root Mean Square	4 mm
Stowed Dimensions	
Height	4.3 m
Diameter	0.7 m
Mass	
Reflector	94.1 kg
Stiffness	
Stowed	30 Hz
Deployed	0.18 Hz

KEY FEATURES

- > Offers large apertures for high-gain missions
- > Offers low-stowed volume to fit standard fairings and spacecraft
- > Accommodates UHF to S band
- > Provides a simple, low-cost structure
- > Is not subject to International Traffic in Arms Regulations controls

S-Band Folded Rib Reflector

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L3Harris is the Trusted Disruptor in defense tech. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit [L3Harris.com](https://www.l3harris.com) for more information.

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