



L3HARRIS®
FAST. FORWARD.

S-BAND RADIAL RIB REFLECTOR

High-accuracy, low-stowed volume reflector

L3Harris has developed a reliable, flexible, low-stowed volume mesh Radial Rib Reflector that can be used for a broad set of applications. The Radial Rib Reflector has the most flights logged over the last 40 years. The reflector features L3Harris’ patented, gold-plated mesh reflective surface that results in improved performance and is ideal for mobile media services and synthetic aperture radar missions. L3Harris’ proven Radial Rib Reflector is built on a low-cost, low-mass structure and offers a controlled, reliable deployment system. The reflectors are scalable up to 9 meters and are for satellite applications from UHF to S-band.

PERFORMANCE PARAMETERS

PARAMETER	SPECIFICATION
Frequency Of Operation	S-band
Deployed Geometry	
Projected diameter	9 m
Focal length	9 m
Center offset	7.8 m
Surface Accuracy Of Orbit	
Root mean square	1.6 mm
Stowed Dimensions	
Height	5.65 m
Diameter	0.61 m
Mass	
Reflector	79 kg
Boom	46 kg
Stiffness	
Stowed	32 Hz long 26 Hz lat
Deployed	0.5 Hz



KEY FEATURES

- > Accommodates applications from UHF to S-band
- > Provides a simple, low-cost structure
- > Folds compactly for launch
- > Is not subject to International Traffic in Arms Regulations controls

S-Band Radial Rib Reflector

© 2026 L3Harris Technologies, Inc. | 03/2026 | L32174

NON-EXPORT CONTROLLED: THIS DOCUMENT CONSISTS OF INFORMATION THAT IS NOT DEFINED AS CONTROLLED TECHNICAL DATA UNDER ITAR PART 120.33 OR TECHNOLOGY UNDER EAR PART 772.

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.

L3Harris Technologies, Inc.

1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)