

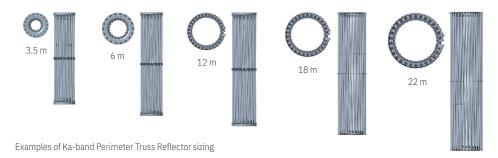
# 3M-22M KA-BAND PERIMETER TRUSS REFLECTOR

## High-accuracy, low-stowed volume reflector

### PERFORMANCE PARAMETERS

PARAMETERS	SPECIFICATIONS				
Deployed geometry	3.5 m	6 m	12 m	18 m	22 m
Reflector mass (kg)	18.6	29.5	54.3	99.8	118
Stowed height (cm)	84.6	133.0	205.7	261.7	417
Stowed diameter (cm)	19.0	27.6	54.6	82.6	82

<sup>\*</sup>Values vary based on F/D



## **KEY PLANNED FEATURES**

Is scalable from 3 meters to 22 meters

Has 50% lower mass than heritage reflector designs

Has 30% shorter stowed height than competitive designs

Offers surface accuracies better than 0.25 millimeters RMS

Is compatible with universal cradle adapter for spacecraft mounting or with traditional direct mounting

## LARGE TELESCOPING BOOM

The Ka-band Perimeter Truss Reflector is available with the Large Telescoping Boom that enables higher focal lengths, lower mass and compact stowage. With boom diameters as small as 20 centimeters, it supports boom lengths up to 50 meters. With precision pointing capability, high stiffness and low mass, it meets the challenging requirements of modern satellite antennas. In addition, its composite tube fabrication, composite lead screw, segment retention detents and latches have been tested and successfully deployed, resulting in a low-risk design.



In late 2018, L3Harris introduced a next-generation space antenna reflector solution to meet the increased demand for more accurate, more compact and lighter reflectors. The Ka-band Perimeter Truss Reflector offers low-stowed volume and height, and low mass—characteristics that support the most technically challenging communication, science and synthetic aperture radar missions.

The Perimeter Truss Reflector uses L3Harris' proprietary high-frequency mesh to achieve superior reflectivity and low cross-polarization interference.

Building on 40 years of large unfurlable antenna reflector experience combined with additional expertise and techniques in composite structures gained from our acquisition of Exelis/Kodak technology, the Perimeter Truss Reflector is a low-risk antenna component.

### 3M-22M Ka-band Perimeter Truss Reflector

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