

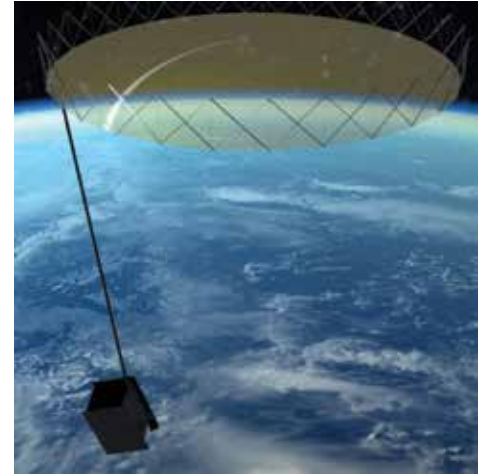
3M-22M KA-BAND PERIMETER TRUSS REFLECTOR

HIGH-ACCURACY, LOW-STOWED VOLUME REFLECTOR

In late 2018, Harris 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 Harris' 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.



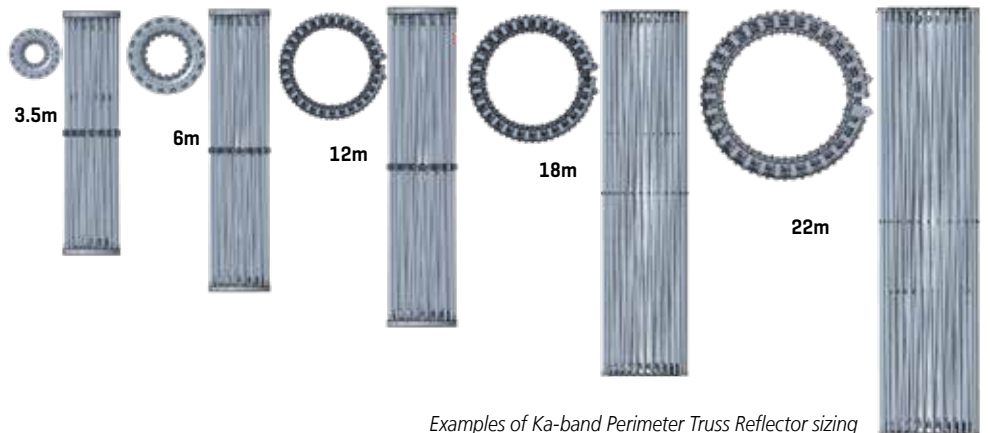
KEY PLANNED FEATURES

- Is scalable from 3m-22m
- Has 50% lower mass than heritage reflector designs
- Has 30% shorter stowed height than competitive designs
- Offers surface accuracies better than 0.25mm RMS
- Is compatible with universal cradle adapter for spacecraft mounting or with traditional direct mounting

PERFORMANCE PARAMETERS

PARAMETERS	SPECIFICATIONS				
DEPLOYED GEOMETRY	3.5m	6m	12m	18m	22m
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

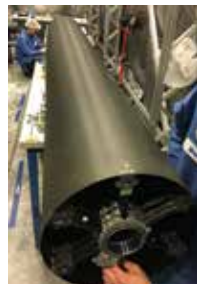
*Values vary based on FID



Examples of Ka-band Perimeter Truss Reflector sizing

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world. Learn more at harris.com.



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 20cm, it supports boom lengths up to 50m. 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.

Non-Export-Controlled Information

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