

5-METER, KA-BAND PERIMETER TRUSS (PT) REFLECTOR

High-accuracy, low-stowed-volume reflector, ideal for software-defined and high-throughput satellites (HTS)

L3Harris answers the demand for more accurate, more compact, production-ready deployable reflectors with its 5-meter Ka-band PT reflector.

HIGH PERFORMANCE TO MEET EMERGING MISSION NEEDS

To support emerging high-throughput, software-defined mission needs, L3Harris developed and qualified the 5-meter PT reflector based on over a decade of experience with Ka-band mesh reflectors. The PT provides the same proven performance in a much smaller stowed package.

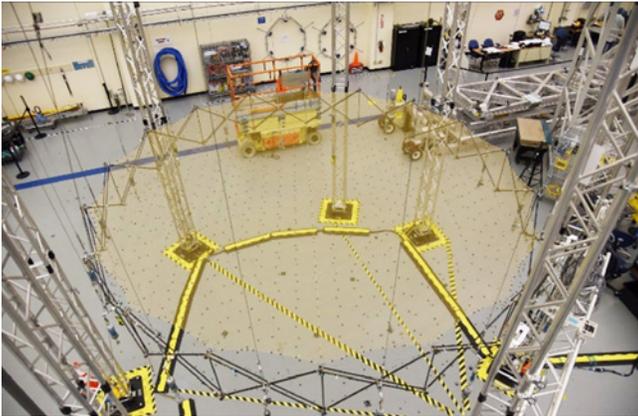
DESIGNED FOR COMPATIBILITY AND HIGHER PRODUCTION RATES

The 5-meter Ka-band PT is designed to support HTS missions with a best-in-class stowed volume to ensure compatibility with both large traditional satellites as well as smaller software-defined flexsats. The offset reflector configuration and smaller stowed size maximize space for larger-feed arrays.

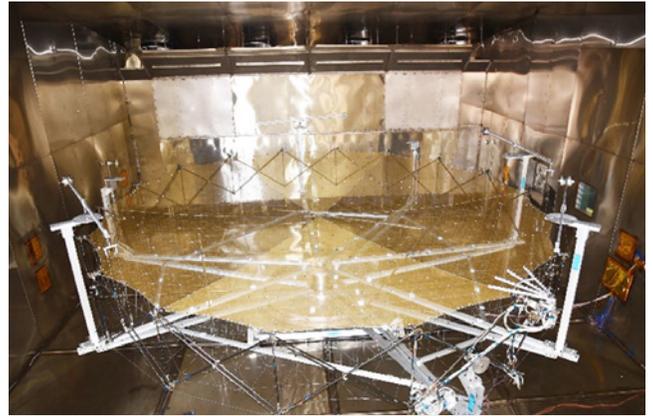


BENEFITS

- > High-frequency Ka-band surface increases spectrum efficiencies by enabling smaller beam sizes
- > Standard design reduces production timelines through the reuse of components and proven processes
- > Reflector stowed cylindrical volume of 1.3 meters tall (51 inches) x 0.34 meters diameter (13.4 inches) is compatible with both small and large satellite platforms
- > Standard mounting interface can be customized, if required, with additional design and analyses
- > Comprehensive qualification campaign ensures technical readiness through rigorous testing, including vibration, thermal distortion and radiation
- > Multiple flight units are currently in production



DEPLOYED 5-METER PERIMETER TRUSS REFLECTOR



THERMO-ELASTIC DISTORTION TEST

PARAMETER	VALUE
Reflector Diameter	5.0 m (197 in)
Focal Length	5.0 m (197 in) (f/D = 1.0)
Edge Offset	1.0 m (39 in)
Reflector Mass	33 kg (73 lbs)
Depolarization	< -40 dB
Mesh Reflection Loss	< 0.1 dB at 20 GHz < 0.2 dB at 30 GHz

Standard flexsat Perimeter Truss mini-spec (rev 9/1/2022)

PARAMETER	VALUE
Pointing Errors	< 0.100° constant < 0.080° time-varying
RMS Surface Roughness	< 0.38 mm (0.015 in)
Stowed Stiffness	> 30 Hz
Deployed Stiffness	> 0.35 Hz
LaunchLoads	10 g
Passive Inter-Modulation (PIM)	PIM-free up to 20 dBW/m ² per carrier

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