DuraShed

Metal Space Frame Radomes



Made in U.S.A. • Built to perform • Available in three sizes • Strength without excess weight • Durable environmental protection

DuraShed radomes from CPI's ESSCO™ operations combine metal space frame construction with a lightweight, high-strength, superhydrophobic Valmex membrane to provide low RF transmission loss and durable environmental protection. Designed for demanding environments, DuraShed radomes simultaneously provide low transmission loss, impact resistance and durable water repellency.

CPI Communications & Power Industries

Features:

- Easy to install, with 55 identical panels and three nominal sizes
- Super hydrophobic coatings for enhanced high-frequency performance in rain, keeping the elements outside where they belong
- Metal space frame construction can withstand wind speeds up to 240 km/h, designs for up to 322 km/h are available
- Electrostatic (Faraday) cage to protect against lightning
- Offers maximum RF transparency and protection over a broad band of frequencies, providing greater range, higher accuracy and sensitivity, and more consistent performance for government, defense and commercial applications

Applications

Excellent broadband performance in satcom applications at all military and commercial frequency bands, including C-, X-, Ku-, K- and Ka-Bands.

- Intelligence gathering
- Radio astronomy
- Weather radar
- Surveillance radar

www.cpii.com/antennas

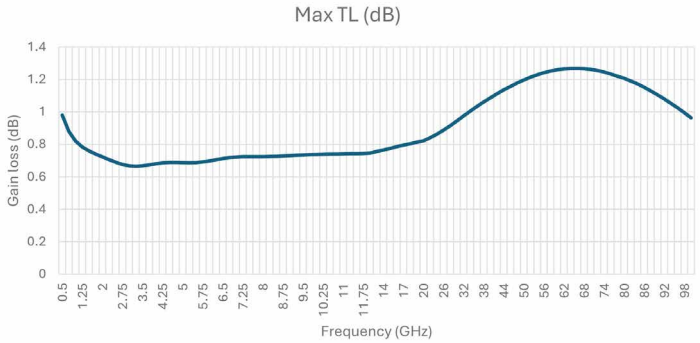
ESSCO™ DuraShed Metal Space Frame Radomes

SPECIFICATIONS

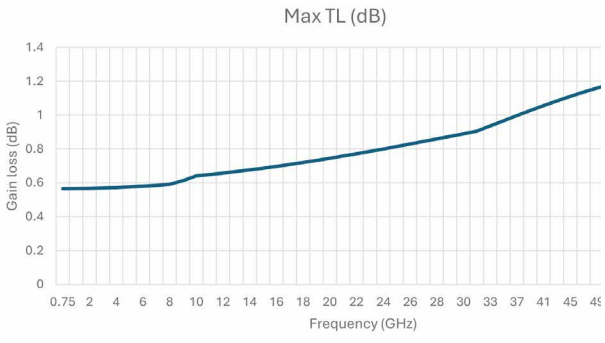
Diameter	D16	D20	D25
Nominal diameter (m)	4.88	6.10	7.62
Internal diameter (m)	4.445	5.613	6.985
External diameter (m)	4.928	6.147	7.671
241 km/h wind design	Available	Available	Available
322 km/h wind design	Available	Available	Not Available



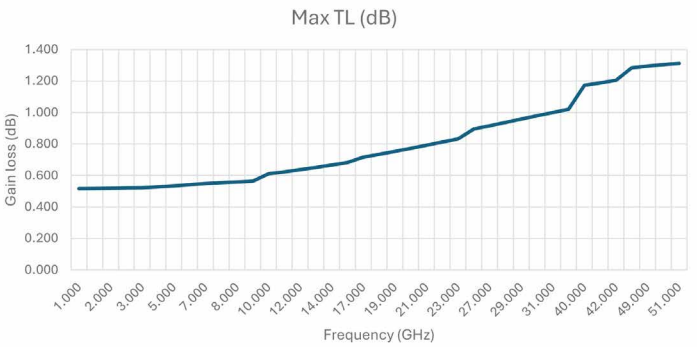
D16 4.88m nominal



D20 6.10m nominal



D25 7.62m nominal



COMMON CONSTRUCTION

GEOMETRY
8000 geometry, 90% truncation

MEMBRANE
Superhydrophobic Valmex

PANEL CONFIGURATION
55 identical panels

MOUNTING/FINISH
Base fittings; white only

To learn more, contact CPI Antenna Technologies at CustomerCareSAT@cpii.com

Communications & Power Industries

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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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