



LUNEBERG REFLECTORS
MONOSTATIC EQUATORIAL
RECTILINEAR POLARIZATION

Zéphyr

Plan #	4LUN04R0008	
R.C.S. Measurements	<p>We guarantee the specifications of the reflector according to plan # 4LUN04R0008. The reflector is delivered with 3 points of measurement (0° / -15° / +15° of sight at 0° of azimuth). The delivered measurement corresponds to the measurement of the lens alone.</p> <p>Moreover the reflector can be used from S band to Ku band.</p> <p>Further measurement options (patterns, other frequencies...) on specific request.</p>	
Response	<p>Monostatic</p>	
Polarization	<p>Rectilinear. The reflected wave is on the same plane as the wave interrogating the reflector.</p>	
Metallization		<p>Metallization on ± 20° Measurements at ± 15°</p>
Radom	<p>Waterproof composite protection (also against salted ambiance). Acceleration – vibration tests have been passed allowing mounting in supersonic targets</p>	
Specific unit packaging		
<p>⚠ Precautions of use</p>	<p>The response of the lens depends on the environment.</p> <ul style="list-style-type: none"> • Avoid thick fairing • Avoid fairing made of dielectrical material with important losses • Avoid any object (especially metallic) positioned between the lens and the radar (strap, screw...) • Take care in mounting 	



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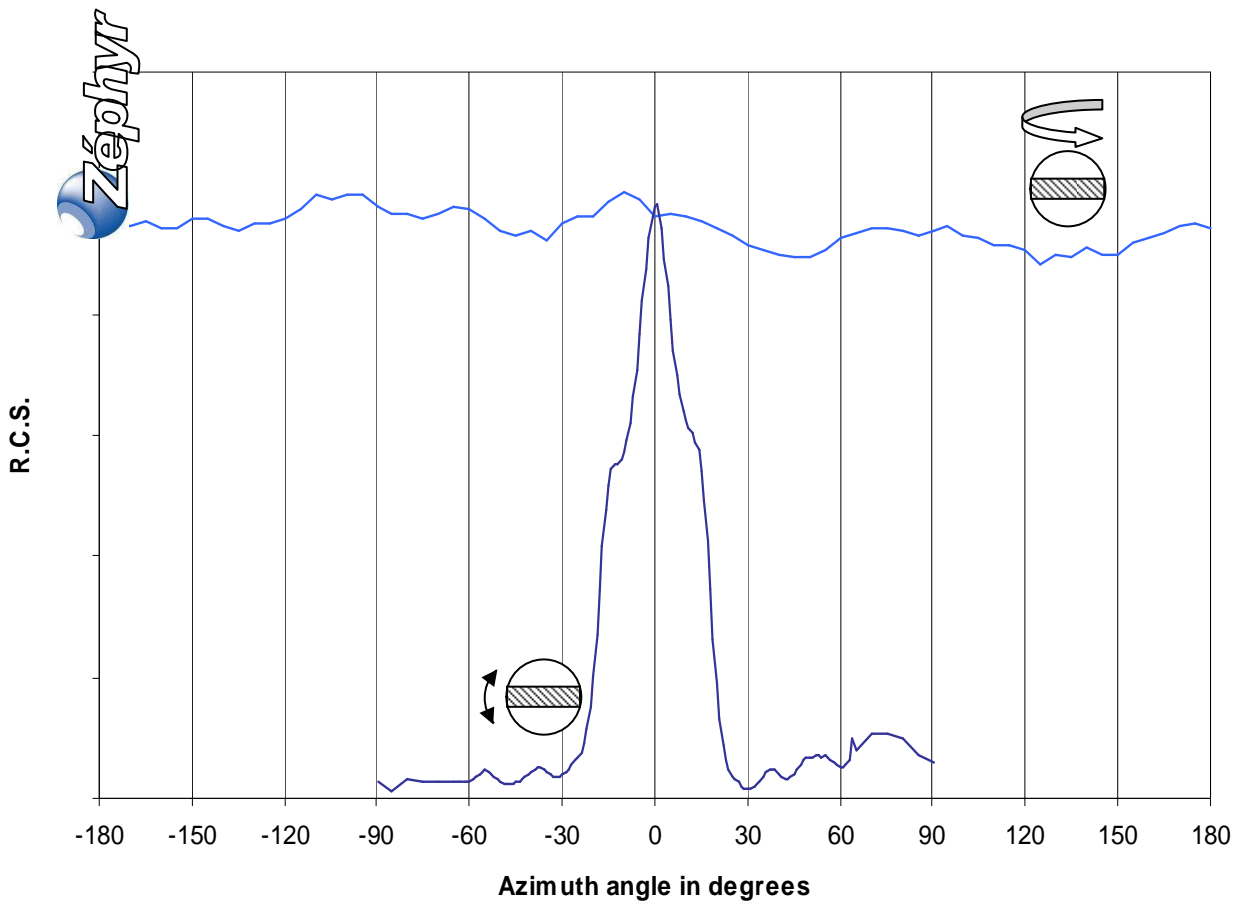
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Reference	Frequency range	Measuring frequency (GHz)	Minimum Radar Cross Section guaranteed (sqm)		Diameter of the reflector without fixing		Weight without fixing (kg)
			R.C.S. in the equatorial plane	R.C.S. at $\pm 15^\circ$ of sight	(inches)	(cm)	
XER07	X	9,375	1,0	$\pm 15^\circ$ 0,3	7,0	18	1,3
XER10	X	9,375	6,0	$\pm 15^\circ$ 2,0	10,0	25	3,8
XER12.5	X	9,375	11,0	$\pm 15^\circ$ 8,0	12,5	32	7,4



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