



**LUNEBERG REFLECTORS  
MONOSTATIC  
RECTILINEAR POLARIZATION**

Zéphyr

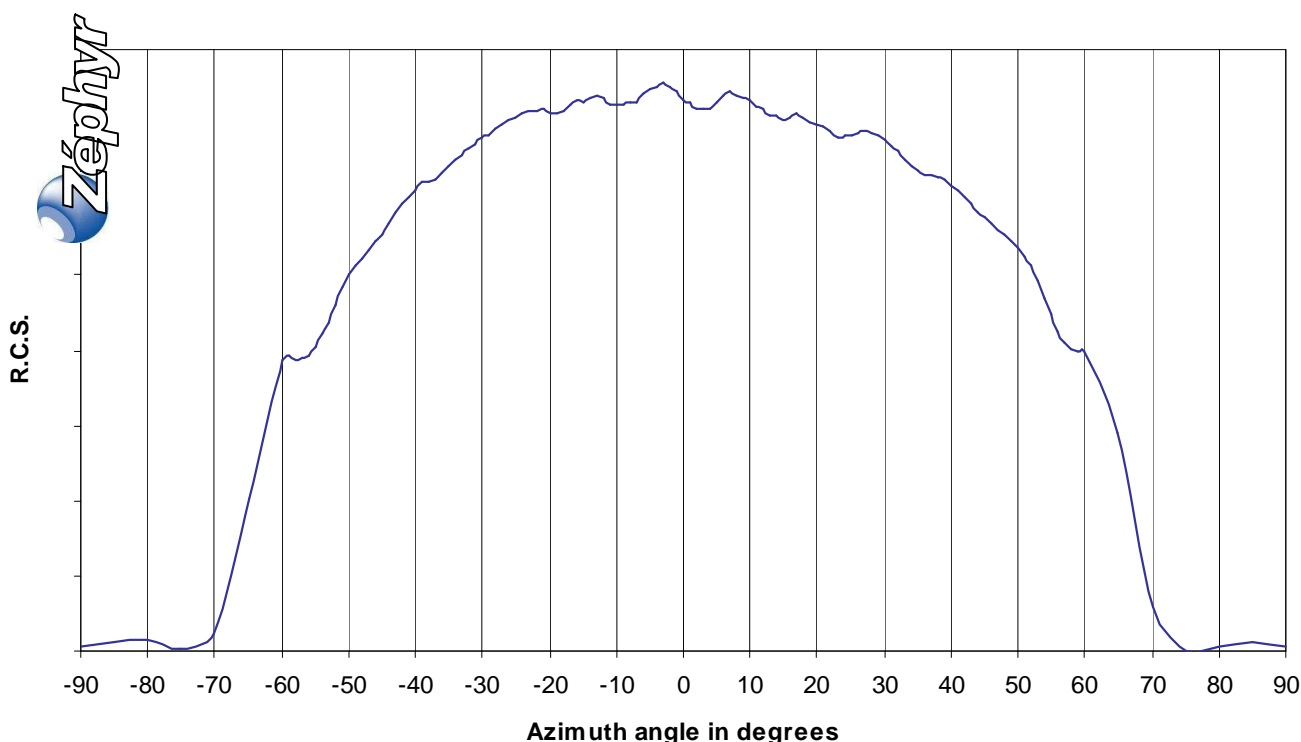
<b>Plan #</b>	4LUN04R0004
<b>R.C.S. Measurements</b>	<p>We guarantee the specifications of the reflector according to plan # 4LUN04R0004. The reflector is delivered with 3 points of measurement (0° / -50° / +50° in azimuth at 0° of sight). The delivered measurement corresponds to the measurement of the 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>
<b>Response</b>	<p>Monostatic</p> <p>Radar transmitter &amp; receiver</p>
<b>Polarization</b>	Rectilinear. The reflected wave is on the same plane as the wave interrogating the reflector
<b>Metallization</b>	<p>label - metallization +</p> <p>Metallization on <math>\pm 70^\circ</math> The label of metallization locates the plane of measurement at <math>\pm 50^\circ</math></p>
<b>Radom</b>	Waterproof composite protection (also against salted ambiance). Acceleration – vibration tests have been passed allowing mounting in supersonic targets.
<b>Standard fixing (in option)</b>	<p>plan 4LUN04D0005</p> <p>Development of any other fixing at request</p>
<b>Specific unit packaging</b>	
<b>⚠ Precautions of use</b>	<p>The response of the lens depends on the environment.</p> <ul style="list-style-type: none"> <li>● Avoid thick fairing</li> <li>● Avoid fairing made of dielectrical material with important losses</li> <li>● Avoid any object (especially metallic) positioned between the lens and the radar (strap, screw...)</li> <li>● Take care in mounting</li> </ul> <p>OK radar</p> <p>Bad mounting radar</p>





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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 axis	R.C.S. at $\pm$ azimuth angle	(inches)	(cm)	
SMR07	S	3,3	0,6	at $\pm 50^\circ$ 0,4	7,0	18	1,3
XMR03	X	9,375	0,2	at $\pm 40^\circ$ 0,15	3,0	8	0,12
XMR04	X	9,375	0,55	at $\pm 40^\circ$ 0,4	4,0	10	0,27
XMR05	X	9,375	1,2	at $\pm 50^\circ$ 0,9	4,9	12	0,45
XMR06	X	9,375	2,5	at $\pm 50^\circ$ 1,9	6,0	15	0,8
XMR06.5	X	9,375	4	at $\pm 50^\circ$ 3	6,5	16	1,2
XMR07	X	9,375	5,5	at $\pm 50^\circ$ 4	7,0	18	1,3
XMR08.5	X	9,375	9	at $\pm 50^\circ$ 8	8,5	22	2,5
XMR09	X	9,375	15	at $\pm 50^\circ$ 12	9,2	23	2,9
XMR10	X	9,375	19	at $\pm 50^\circ$ 16	10,0	25	3,8
XMR12.5	X	9,375	45	at $\pm 50^\circ$ 35	12,5	32	7,4
XMR18	X	9,375	100	at $\pm 50^\circ$ 50	17,5	44	20
XMR24	X	9,375	250	at $\pm 50^\circ$ 200	24,0	61	50
KMR08.5	Ku	14	12	at $\pm 50^\circ$ 10	8,5	22	2,5
KMR09	Ku	14	15	at $\pm 50^\circ$ 12	9,2	23	2,9



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