



LUNEBERG REFLECTORS
MONOSTATIC
RECTILINEAR POLARIZATION

Zéphyr

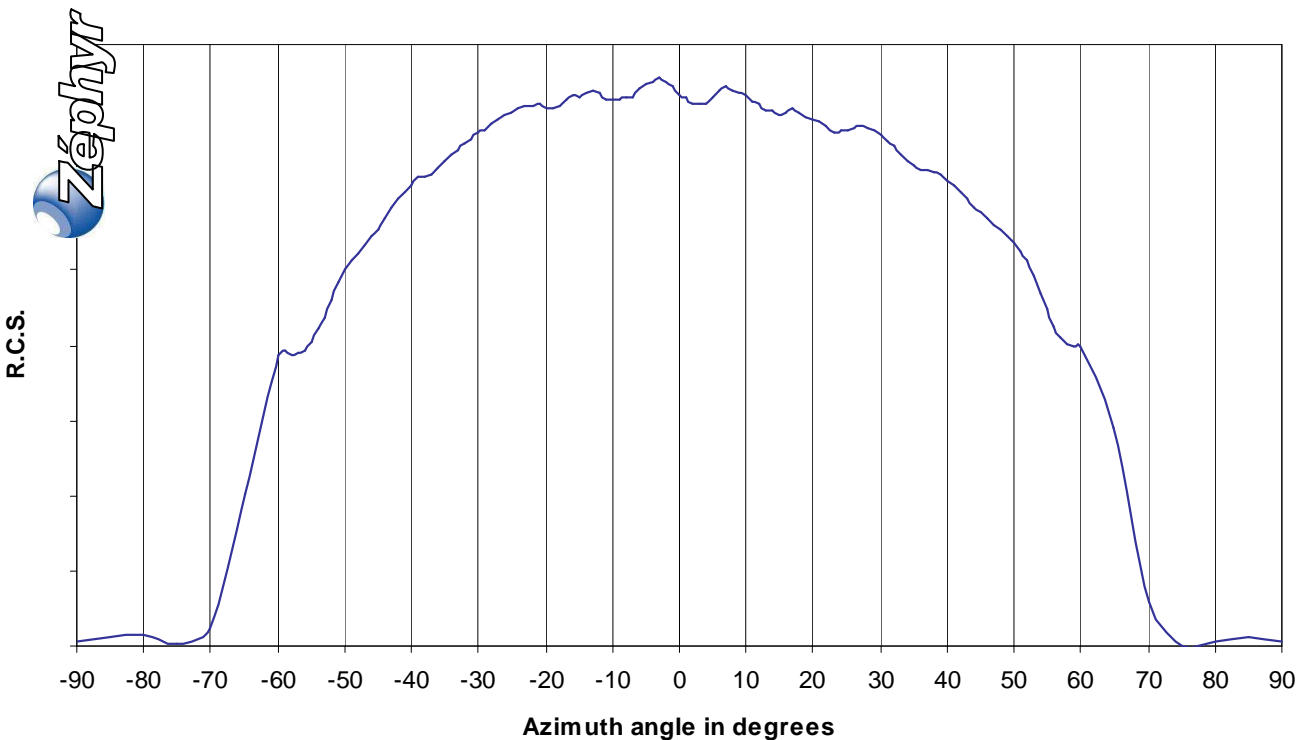
Plan #	4LUN04R0004	
R.C.S. Measurements	<p>We guarantee the specifications of the reflector according to plan # 4LUN04R0004. The reflector is delivered with 3 points of measurement (0° / -50° / +50° in azimuth at 0° of sight). The delivered measurement corresponds to the measurement of the lens alone.</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>	
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 $\pm 70^\circ$ The label of metallization locates the plane of measurement at $\pm 50^\circ$</p>
Radom	<p>Waterproof composite protection (also against salted ambiance). Acceleration – vibration tests have been passed allowing mounting in supersonic targets.</p>	
Standard fixing (in option)		<p>plan 4LUN04D0005 Development of any other fixing at request</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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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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