



## LUNEBERG REFLECTORS MONOSTATIC EQUATORIAL RECTILINEAR POLARIZATION

Zéphyr

|                                |   |
|--------------------------------|---|
| <b>Plan #</b>                  | 4LUN04R0008   |
| <b>R.C.S. Measurements</b>     | <p>We guarantee the specifications of the reflector according to plan # 4LUN04R0008. The reflector is delivered with 3 points of measurement (<math>0^\circ</math> / <math>-15^\circ</math> / <math>+15^\circ</math> of sight at <math>0^\circ</math> 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> |
| <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>Metallization on <math>\pm 20^\circ</math><br/>Measurements at <math>\pm 15^\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>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>   |



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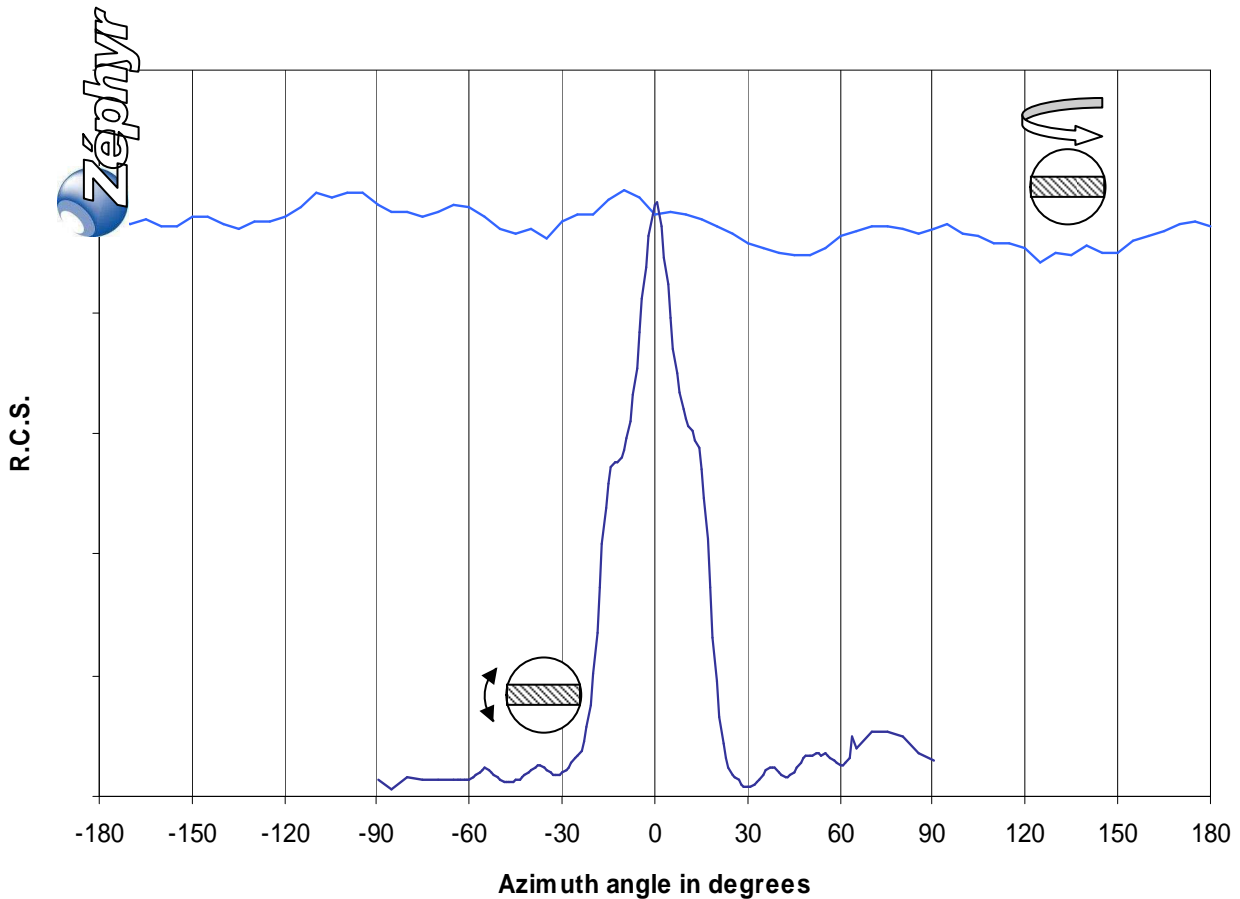
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RECTILINEAR POLARIZATION**

| 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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ISO 9001  
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