The antenna operating in the monitoring systems of ILS devices. The antenna is made of heavy duty aluminum. All aluminium elements are welded. The antenna is painted with powder varnish, which protects the conductor from an influence of climatic conditions. All metal parts are DC-grounded.
<table>
<thead>
<tr>
<th><strong>ELECTRICAL</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain (ref. to $\lambda/2$ dipole)</td>
<td>4.5 dB</td>
</tr>
<tr>
<td>Front/back ratio</td>
<td>10 dB</td>
</tr>
<tr>
<td>Radiation pattern</td>
<td>directional</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 $\Omega$</td>
</tr>
<tr>
<td>Antenna type</td>
<td>Yagi</td>
</tr>
<tr>
<td>VSWR</td>
<td>$\leq$1.5</td>
</tr>
<tr>
<td>Maximum power</td>
<td>60 W</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>10 MHz</td>
</tr>
<tr>
<td>Frequency range</td>
<td>108-118 MHz</td>
</tr>
<tr>
<td><strong>Horizontal radiation pattern code (E-plane)</strong></td>
<td>032EB30 (CEPT Recommendation T/R 25-08)</td>
</tr>
<tr>
<td><strong>Vertical radiation pattern code (H-plane)</strong></td>
<td>060EB25 (CEPT Recommendation T/R 25-08)</td>
</tr>
<tr>
<td><strong>MECHANICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>N</td>
</tr>
<tr>
<td>Material, colour</td>
<td>Aluminium, powder varnish, white</td>
</tr>
<tr>
<td>Polarization</td>
<td>horizontal</td>
</tr>
<tr>
<td>Diameter of mounting mast</td>
<td>30-76mm</td>
</tr>
<tr>
<td>Weight</td>
<td>10.5 kg</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>All metal parts are DC-grounded</td>
</tr>
<tr>
<td>Height/width/depth</td>
<td>1150 / 1500 / 120 mm</td>
</tr>
<tr>
<td>Warranty period</td>
<td>3 years</td>
</tr>
<tr>
<td>Packaging</td>
<td>Carton box</td>
</tr>
<tr>
<td>Wind speed</td>
<td>60 m/s</td>
</tr>
<tr>
<td><strong>CLIMATIC CONDITIONS</strong></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-55°C ÷ +60°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>$\leq$ 100% at +40°C</td>
</tr>
</tbody>
</table>
Vertical radiation pattern