APO-75 Offset Parabolic Antenna

SVP Broadcast Microwave offset reflector antenna system, comprising a 0.74m elliptical reflector with support metalwork and a selection of available feeds, is specially suitable for ENG vehicle as well as for Central Receiver applications.

The efficient elliptical design reflector features a rugged fibreglass construction with metalized front surface. The feedarm metalwork is a bent-up and welded stainless steel structure with white powder-coat paint finish.

A range of feedhorns is available - both single and dual band. There are also dual polarity feedhorns, controllable from the HDT-70 transmitter through a polarity control connector situated in the feeder. The available polarities are: vertical, horizontal and quad.

Characteristics

**Reflector Geometry:** Elliptical, offset geometry  
**Reflector Dimensions:** 29 inches (736 mm) width, 20.5 inches (520 mm) height  
**Gains and Bandwidths:**
- **1.98 - 2.50 GHz:**
  - Gain: 21 dBi  
  - Bandwidth: 13° az / 18° el  
- **2.3 - 2.7 GHz:**
  - Gain: 22 dBi  
  - Bandwidth: 11.5° az / 16° el  
- **4.4 - 5.0 GHz:**
  - Gain: 26.5 dBi  
  - Bandwidth: 7° az / 8.5° el  
- **6.4 - 7.2 GHz:**
  - Gain: 29 dBi  
  - Bandwidth: 4.5° az / 6° el  
**Return Loss:** 14 dB typ  
**Max. Power:** 10 W  
**RF Connectors:** N Female  
**Feeder Options:**
- **Single band (1.98 - 2.50 GHz):**
  - Fixed polarization feed (to specify poln.)
  - Dual polarization feed (to specify H/V or RHCP/LHCP)
- **Single band (6.4 - 7.2 GHz):**
  - Fixed polarization feed (to specify poln.)
  - Dual polarization feed
- **Dual band (1.98 - 2.50 GHz / 6.4 - 7.2 GHz):**
  - Fixed polarization feed (to specify fixed poln.)
  - Dual polarization feed
  - Quad polarization feed

*For other frequency bands, please contact SVP: info@svpbm.com

www.svpbm.com
Example of Quad-Polarization Feed

KPT0E10-6P Pinout Table

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Vertical</td>
</tr>
<tr>
<td>B</td>
<td>LHCP</td>
</tr>
<tr>
<td>C</td>
<td>Ground</td>
</tr>
<tr>
<td>D</td>
<td>Not used</td>
</tr>
<tr>
<td>E</td>
<td>RHCP</td>
</tr>
<tr>
<td>F</td>
<td>Horizontal</td>
</tr>
</tbody>
</table>

Drawing: Mounting bracket / Feedarm for reflector