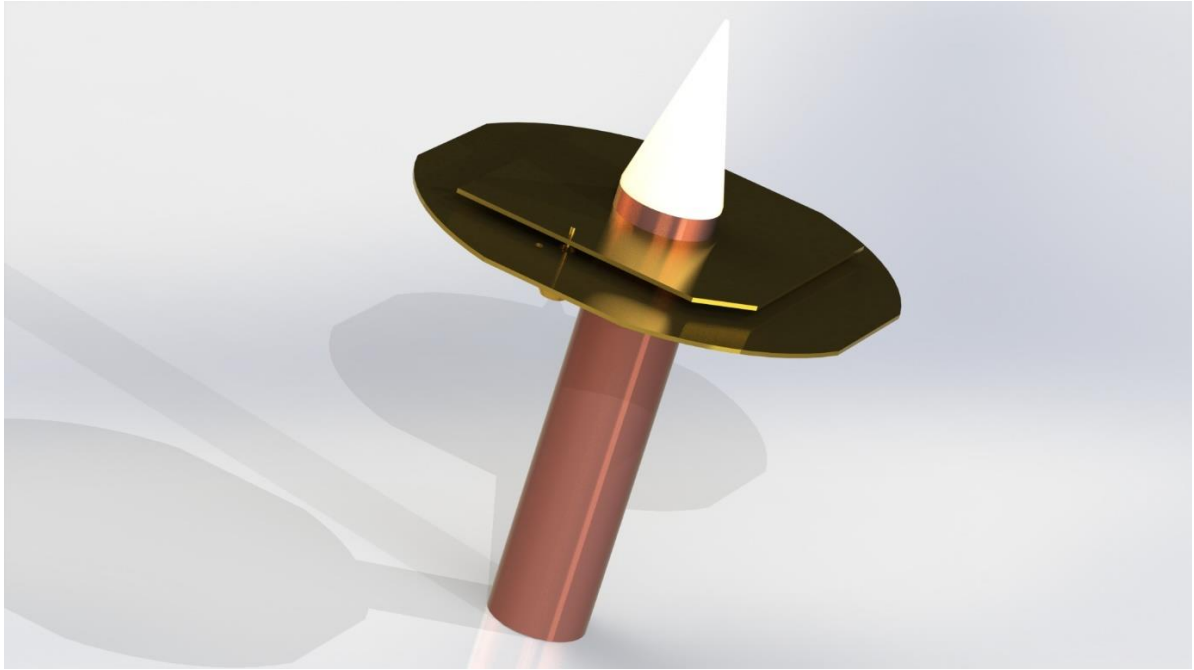
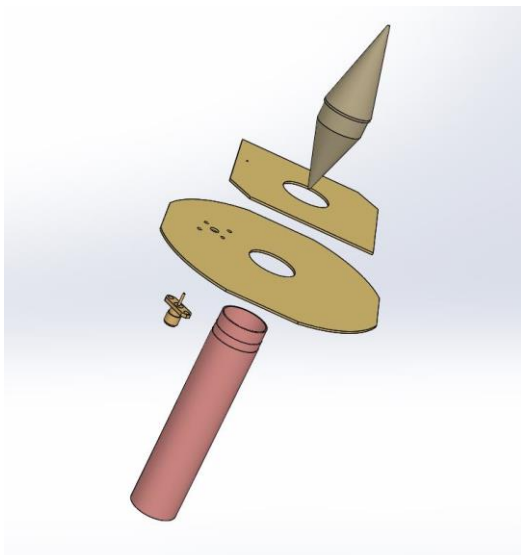


# Assembly instructions POTY (Patch Of The Year)

Dual band antenna for Qatar-Oscar 100 use. TX 2400 MHz, RX 10500 MHz

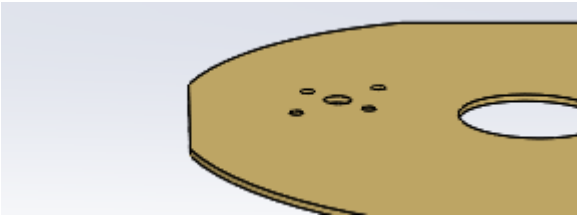
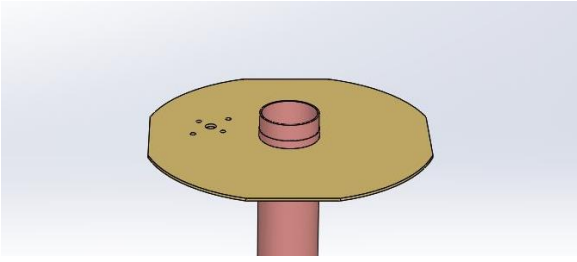
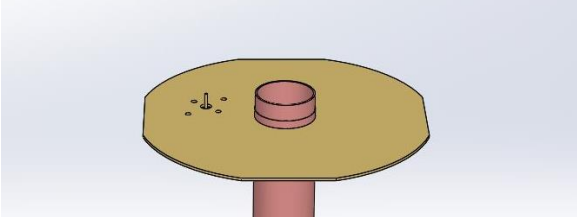
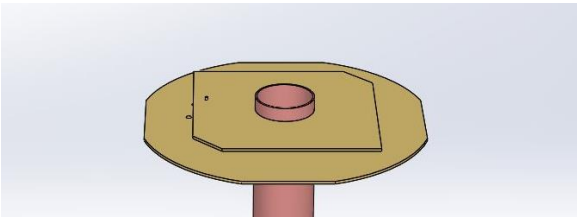
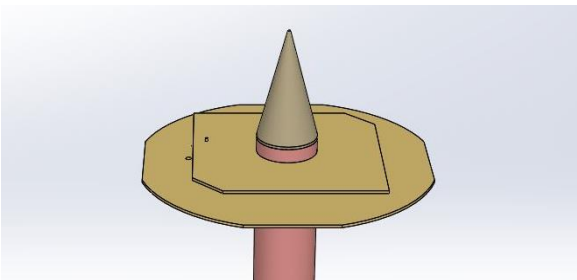


This kit contains the following parts:



1. Dielectric lens (1x)
2. Patch plate (1x)
3. Reflector plate (1x)
4. SMA female connector (1x)
5. M2,5 screw (2x)
6. Waveguide (1x)

## Assembly steps:

	<ul style="list-style-type: none"> <li>Smooth the center hole of both plates with sanding paper.</li> </ul>
	<ul style="list-style-type: none"> <li>Place the waveguide in a vice with the stepped diameters upwards.</li> <li>Position the reflector on the second step. . (watch the orientation)</li> <li>Solder the reflector to the waveguide with a torch. Use flux and very little 60/40 solder.</li> <li>Aim the torch only on the waveguide</li> </ul>
	<ul style="list-style-type: none"> <li>Mount the SMA female connector with two M 2,5 screws.</li> </ul>
	<ul style="list-style-type: none"> <li>Position the patch on the first step. (watch the orientation)</li> <li>Be sure the center pin of the SMA matches the hole of the patch</li> <li>Solder the patch to the waveguide with a torch. Use flux and 60/40 solder.</li> <li>Check if the distance between the plates is 3mm</li> <li>Aim the torch only on the waveguide</li> <li>Solder the center pin to the patch with a soldering iron.</li> <li>After soldering you can clean the antenna with hot water</li> </ul>
	<ul style="list-style-type: none"> <li>Push the dielectric lens in to the waveguide.</li> <li>Now your antenna is ready to place in the focus of your dish.</li> <li>This lens is only necessary with an offset dish. A prime focus dish performs better without.</li> </ul>