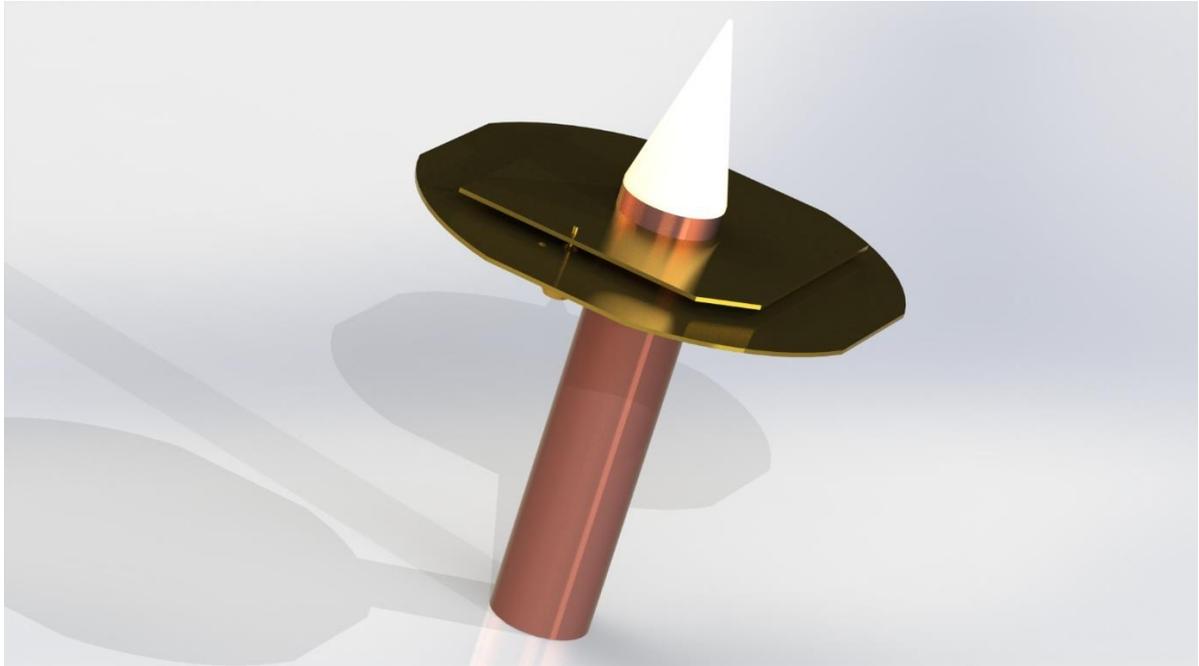
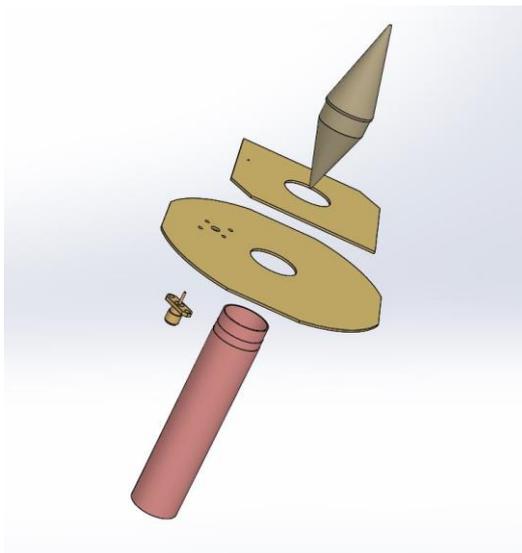


Assembly instructions POTY (Patch Of The Year)

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

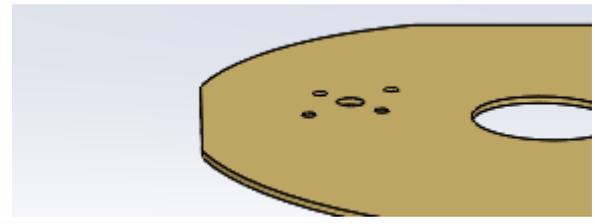
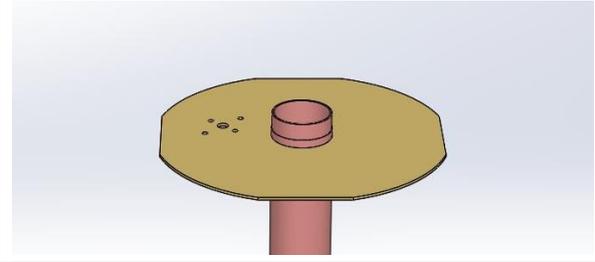
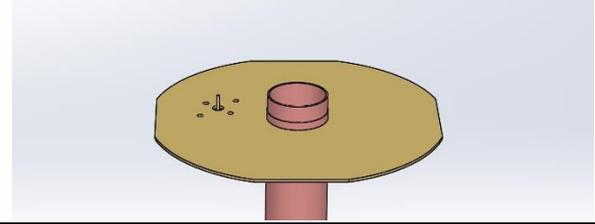
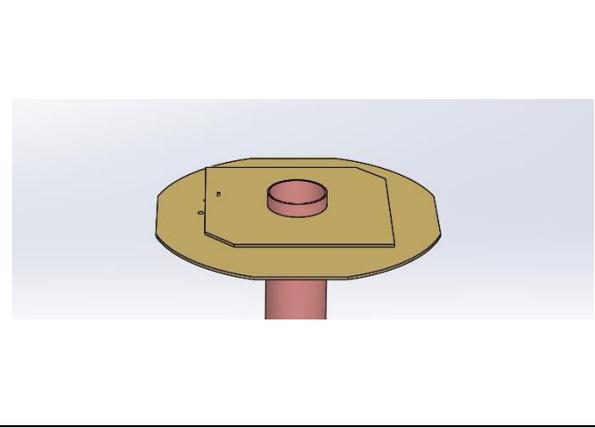
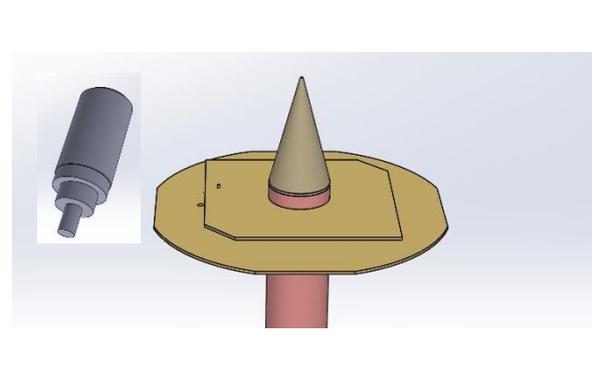


This kit contains the following parts:



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