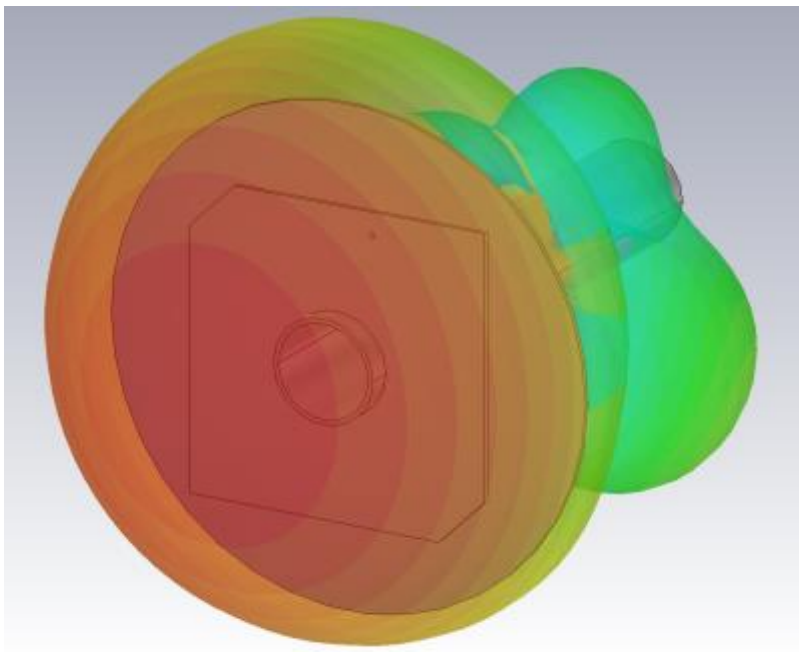


## S/X-Band Feed of G0MJW, PA3FYM & M0EYT

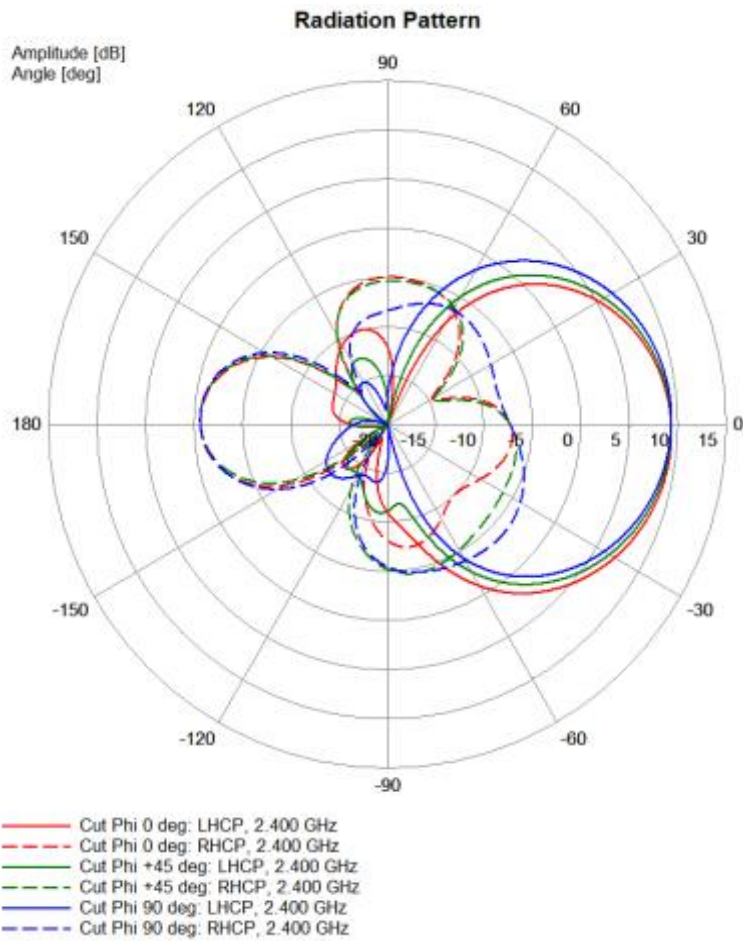


S/X-Band Feed of G0MJW, PA3FYM & M0EYT

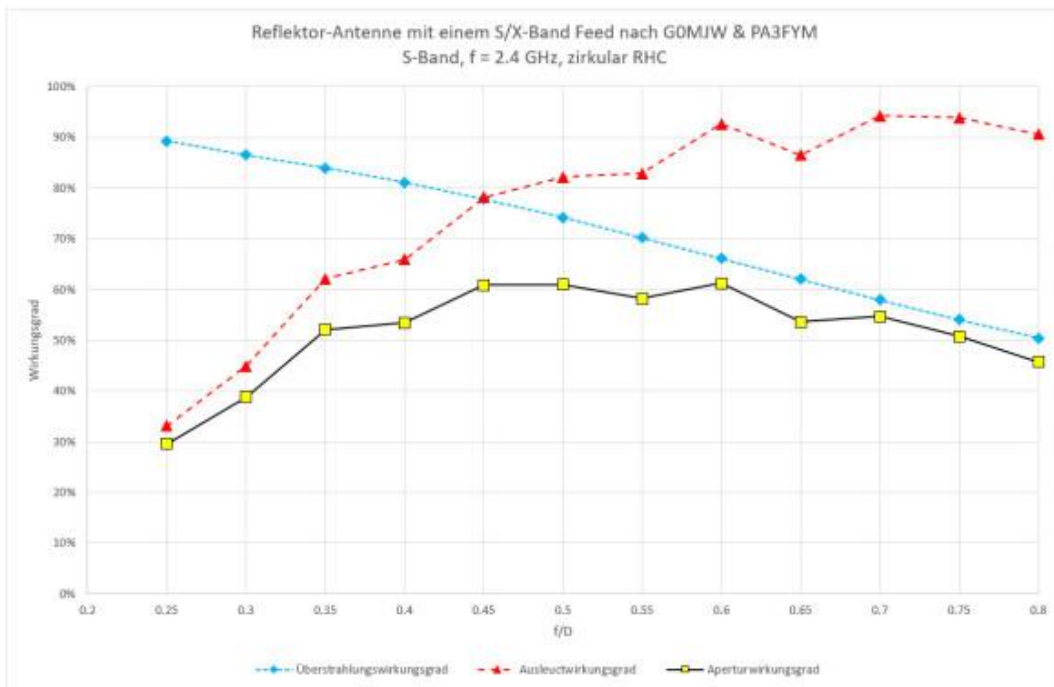
## S-Band calculations of the S/X-Band Feed of G0MJW, PA3FYM & M0EYT



CST-Model with 3D S-Band pattern (LHCP)

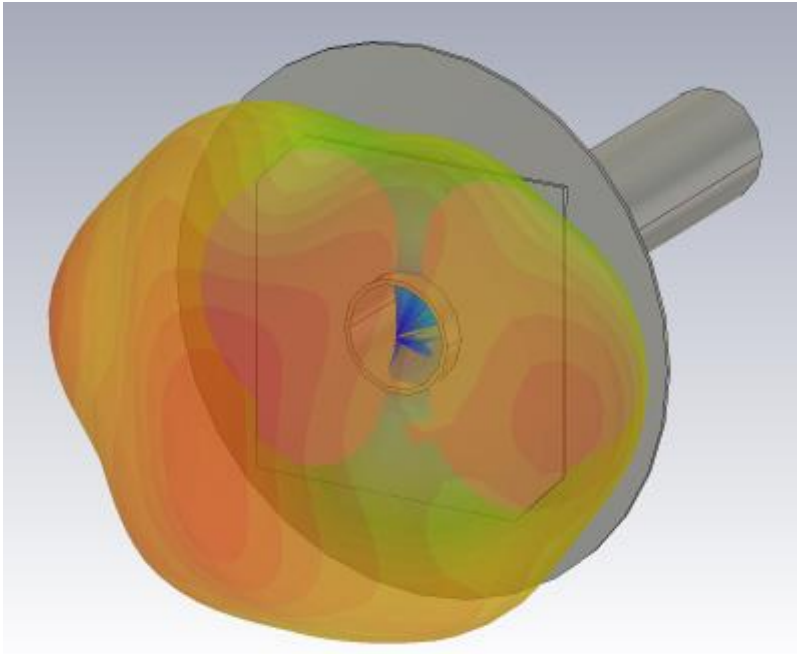


S-Band LHCP & RHCP pattern

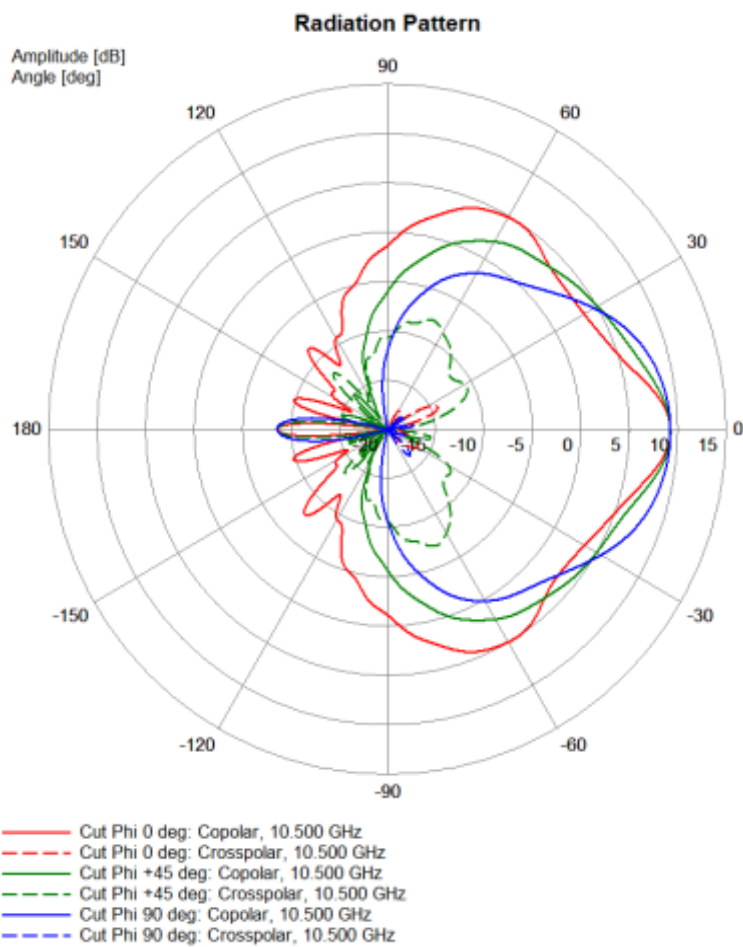


S-Band efficiency in 2m dish

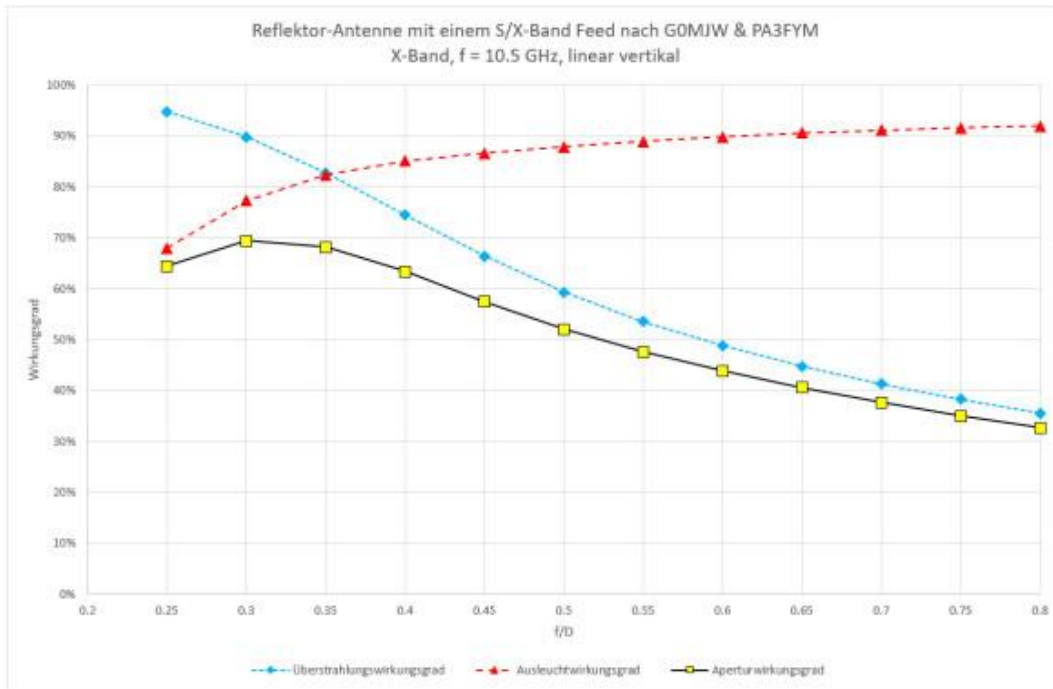
## X-Band calculations of the S/X-Band Feed of G0MJW, PA3FYM & M0EYT



CST-Modell met 3D X-Band pattern linear with open waveguide (no lens)



X-Band Co & Cross pattern



X-Band efficiency in 2m dish. (no lens)

To support dishes with higher  $f/d$  ratios you need smaller radiation patterns. You can realize this with dielectric lenses.

name	Lens	relative forward gain dB	-10dB angle	return loss dB
cylinder large	1	5,9	68	-15,5
cylinder small	2	5,6	77	-15,5
Rocket	3	5,5	83	-20,5
print big	4	4	90	-30,5
poty	5	3,5	91	-26,5
HB9PZK	6	3,5	91	-31,5
print small	7	2,5	109	-25,5
open waveguide	8	0	149	-19,5



The nr 2 is supplied with the kit and suited for standard 0.6 offset dishes. A prime focus 0.45 dish performs the best with nr 7.