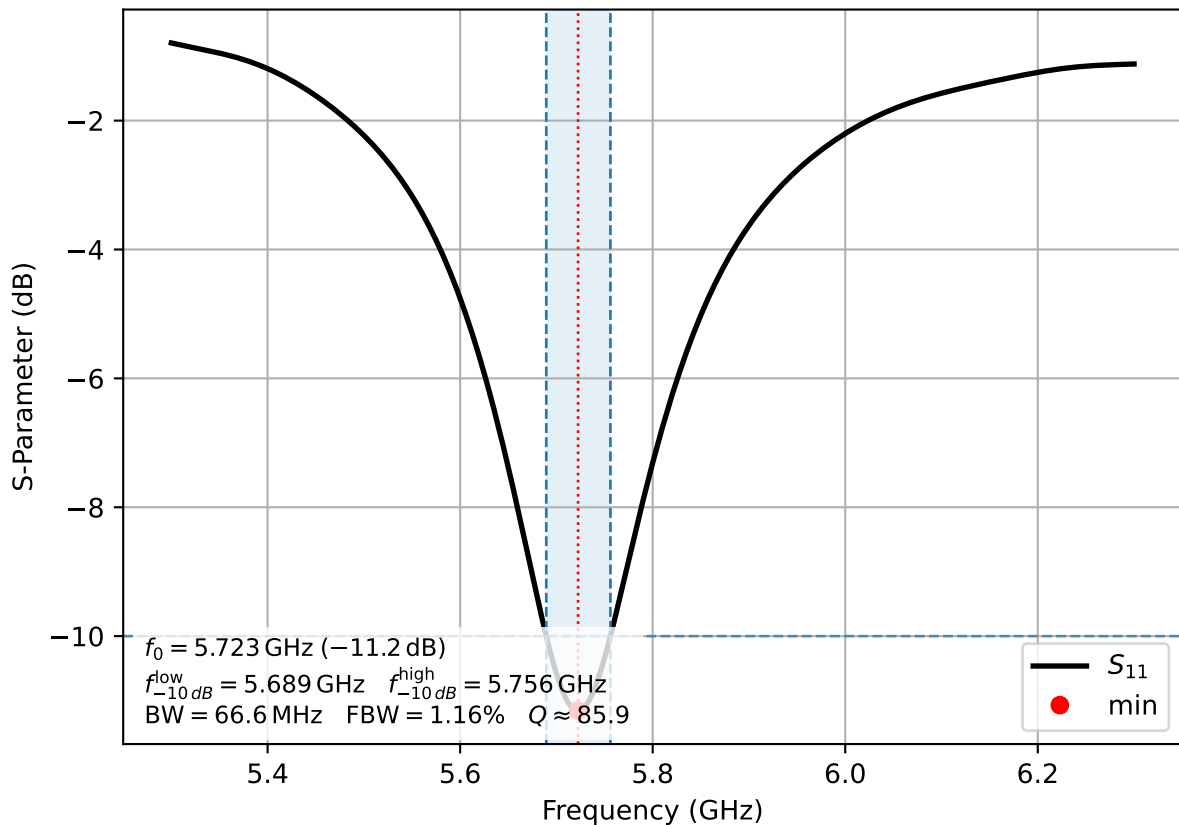
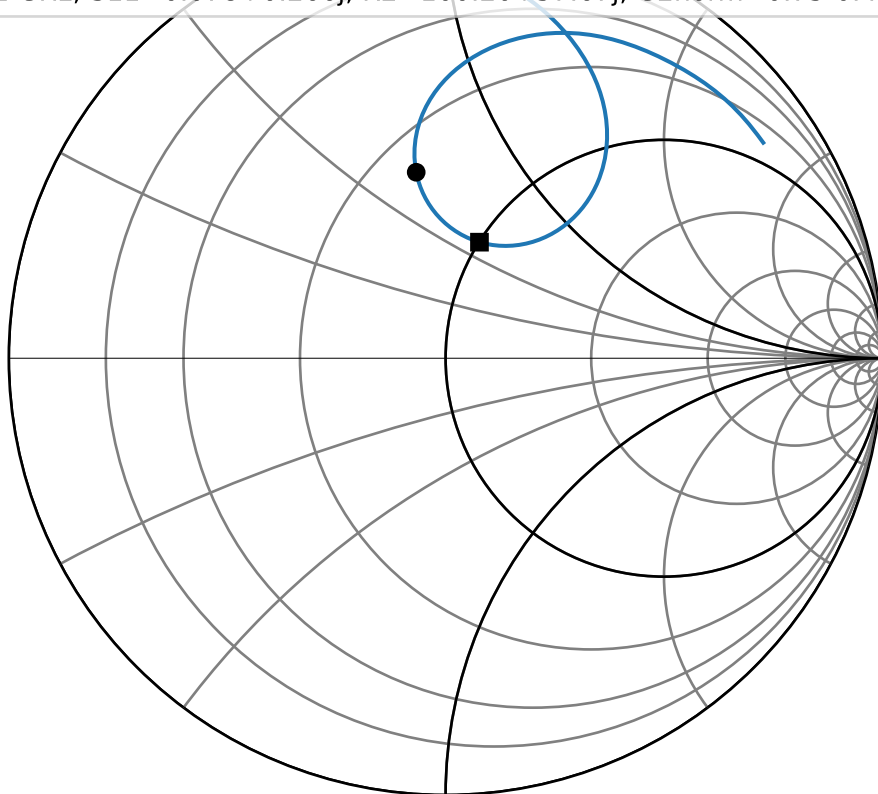


Reflection Coefficient S_{11}

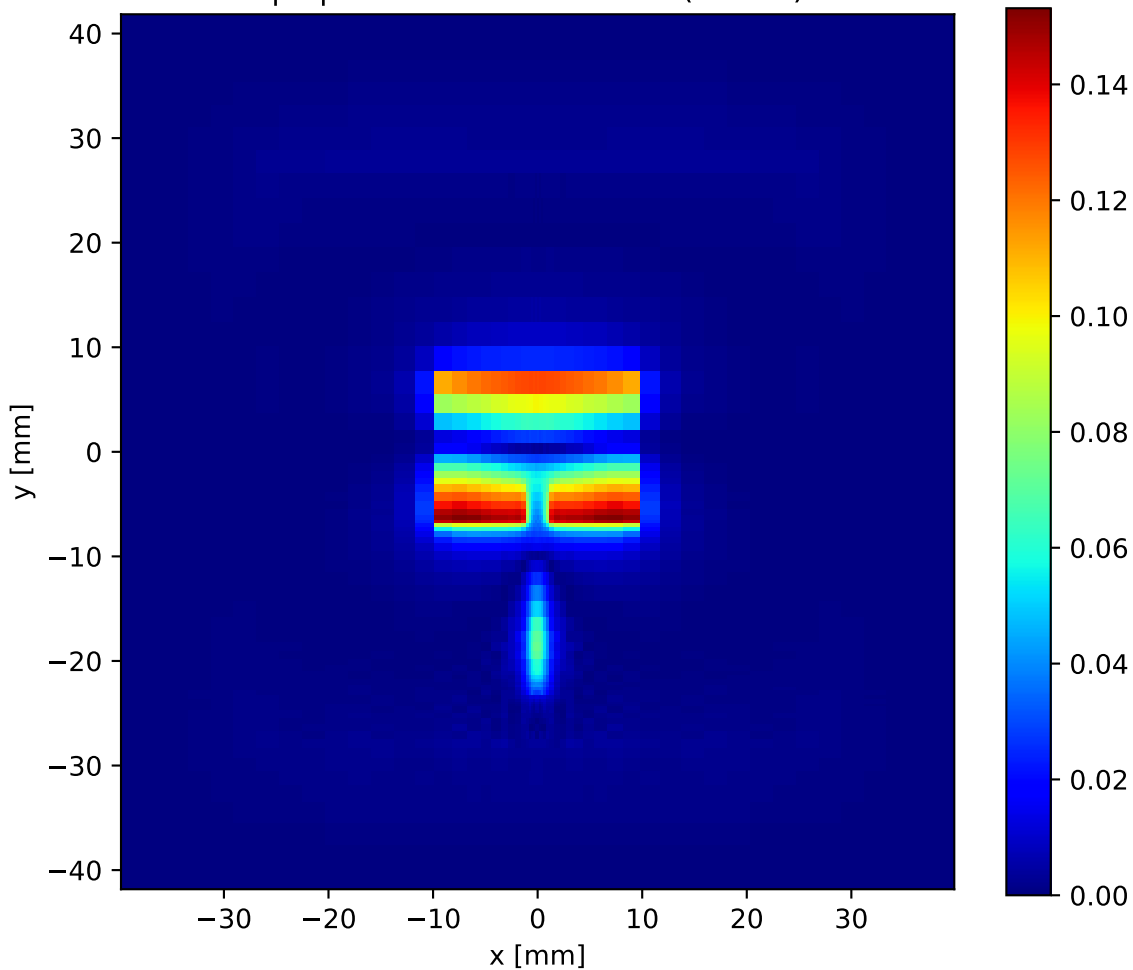


Smith Chart

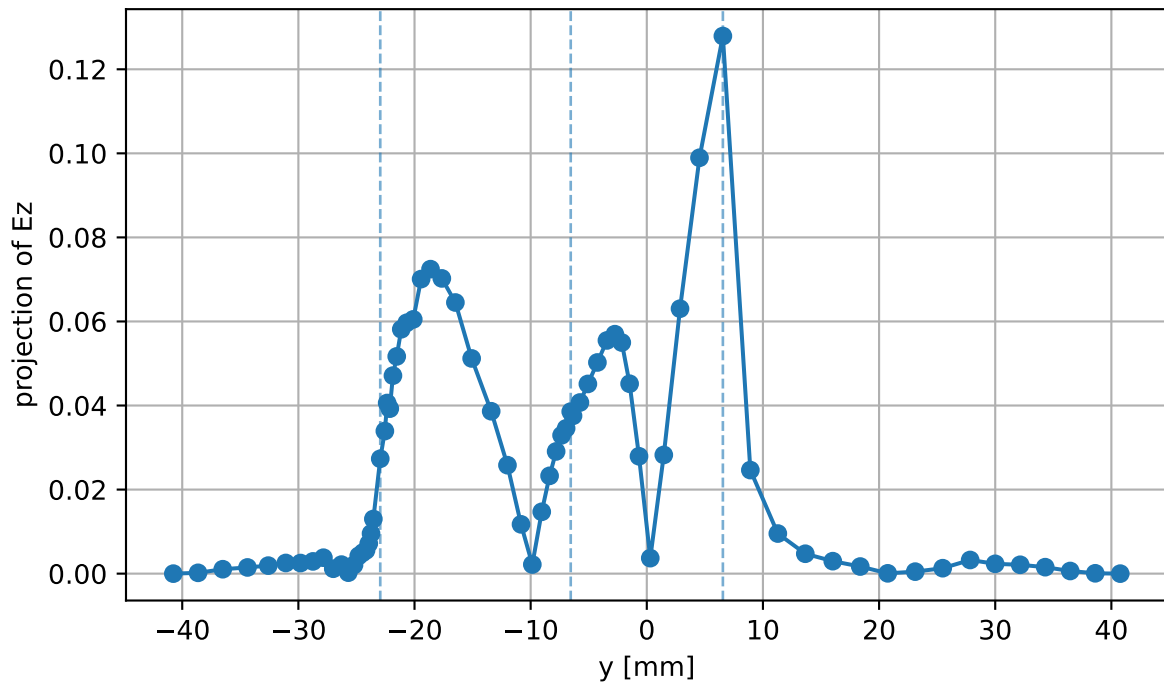
- S11 (Patch W=18.00 mm, L=13.10 mm)
- 5.80 GHz, $S_{11} = -0.067 + 0.426j$, $R = 61.66 + 64.49j$, $G_{\text{norm}} = 0.77 - 0.81j$
- 5.72 GHz, $S_{11} = 0.078 + 0.266j$, $R_2 = 100.20 + 57.67j$, $G_{2\text{norm}} = 0.75 - 0.43j$



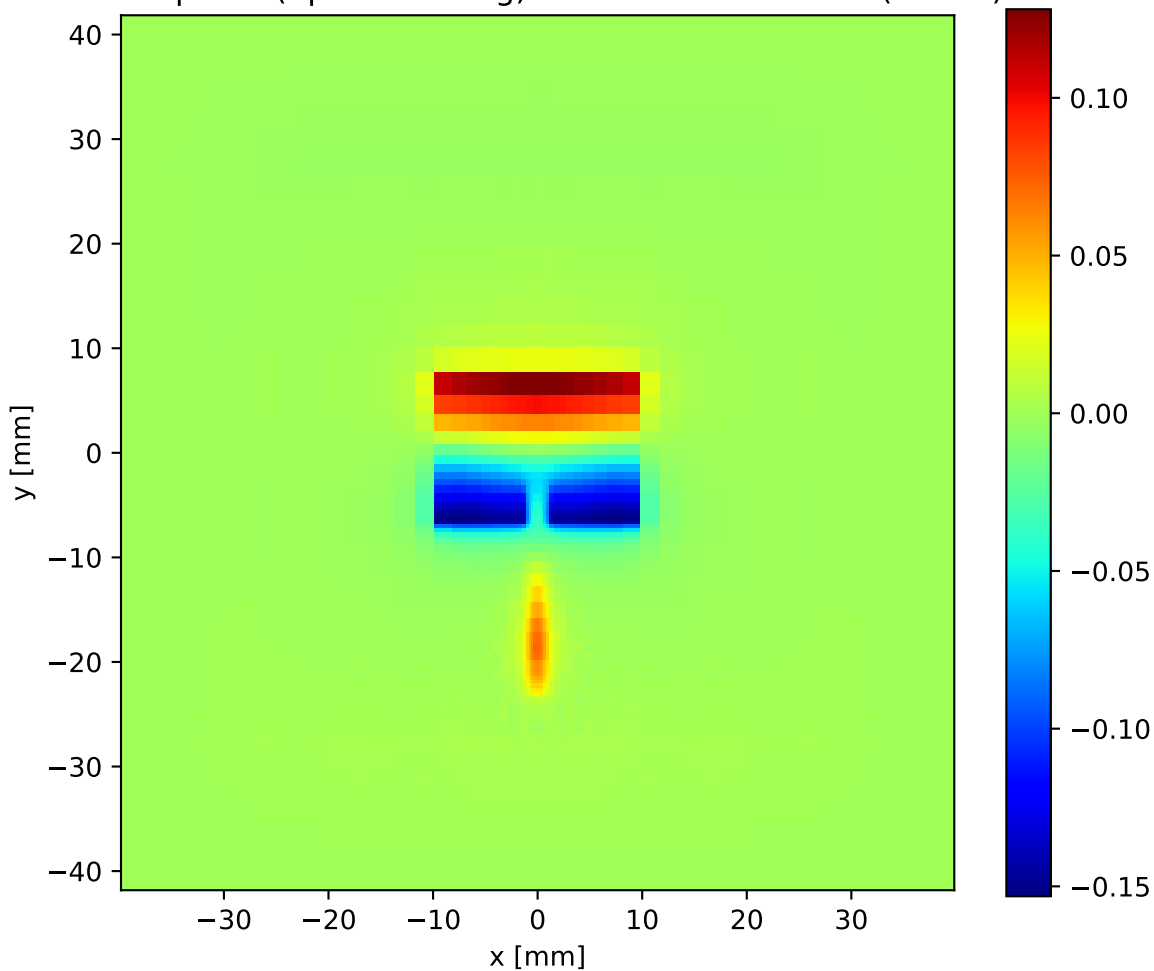
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



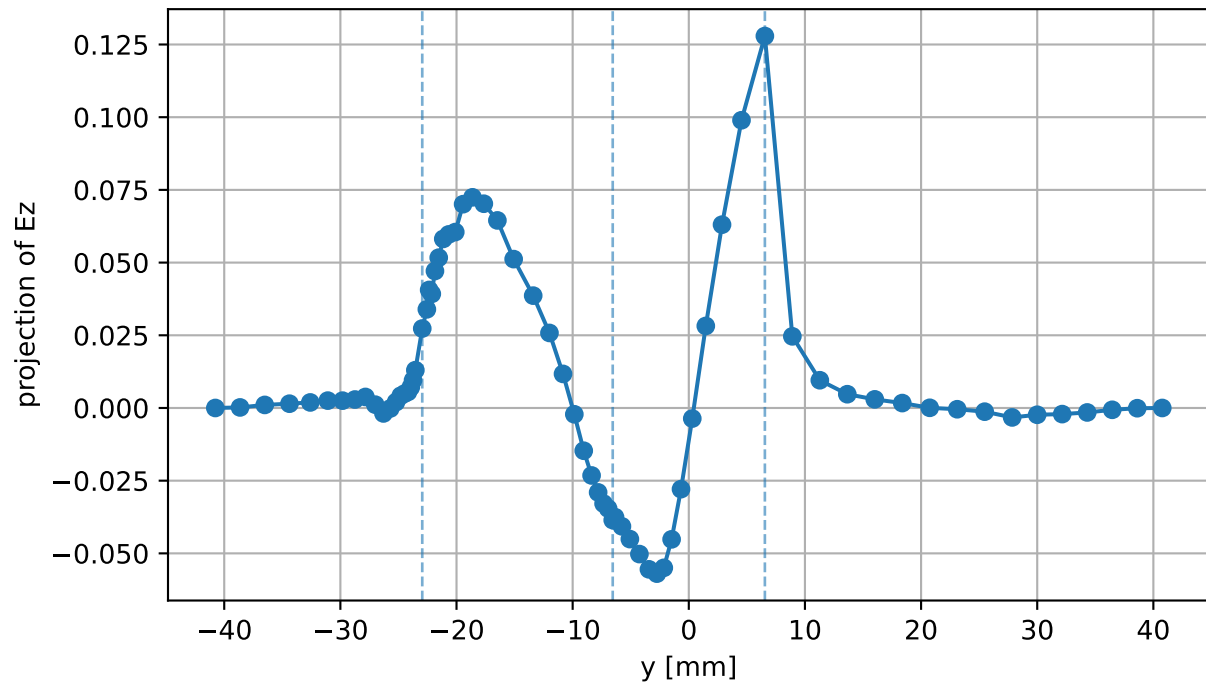
$|E_z|$ line cut along Y at $x=0.10$ mm, $z=0.76$ mm
(idx $x=28$, $z=15$)



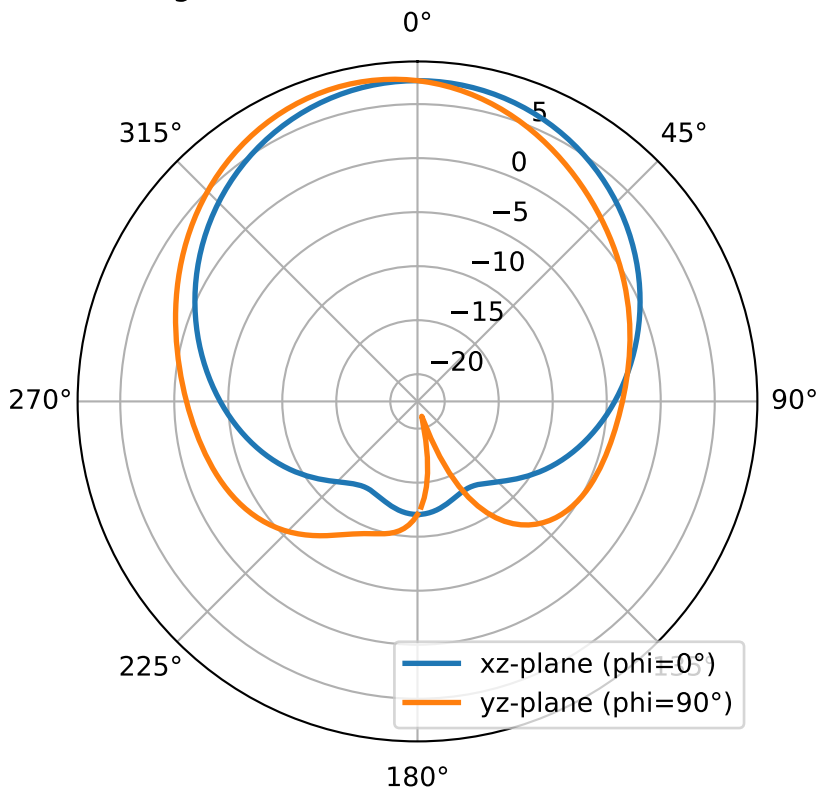
Ez snapshot (dphi=0.06deg) slice at $z = 0.76$ mm (idx 15)



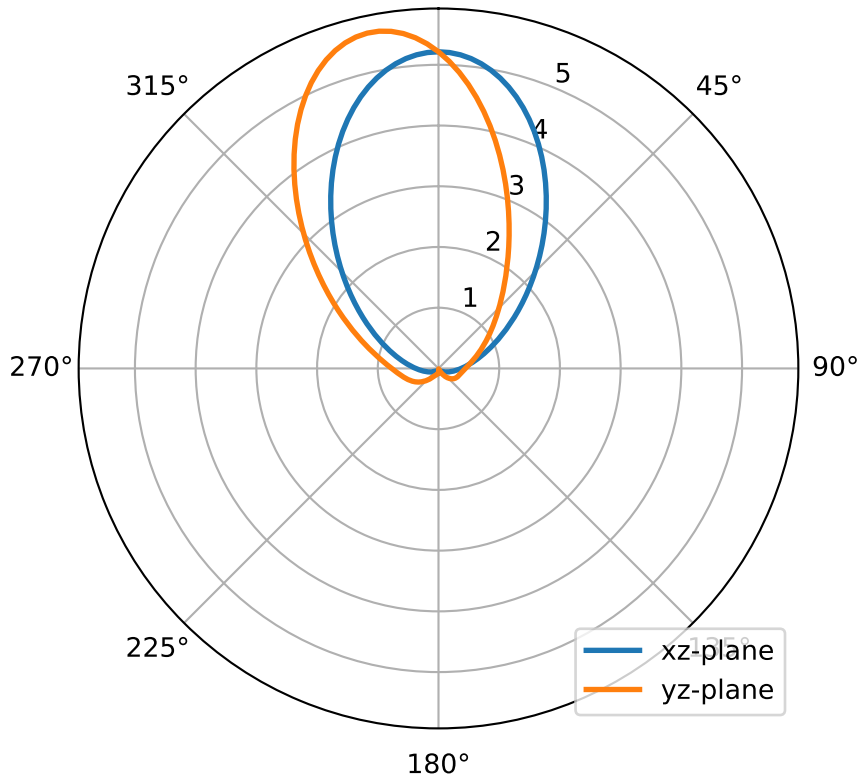
Ez snapshot (dphi=0.06deg) line cut along Y at x=0.10 mm, z=0.76 mm
(idx x=28, z=15)



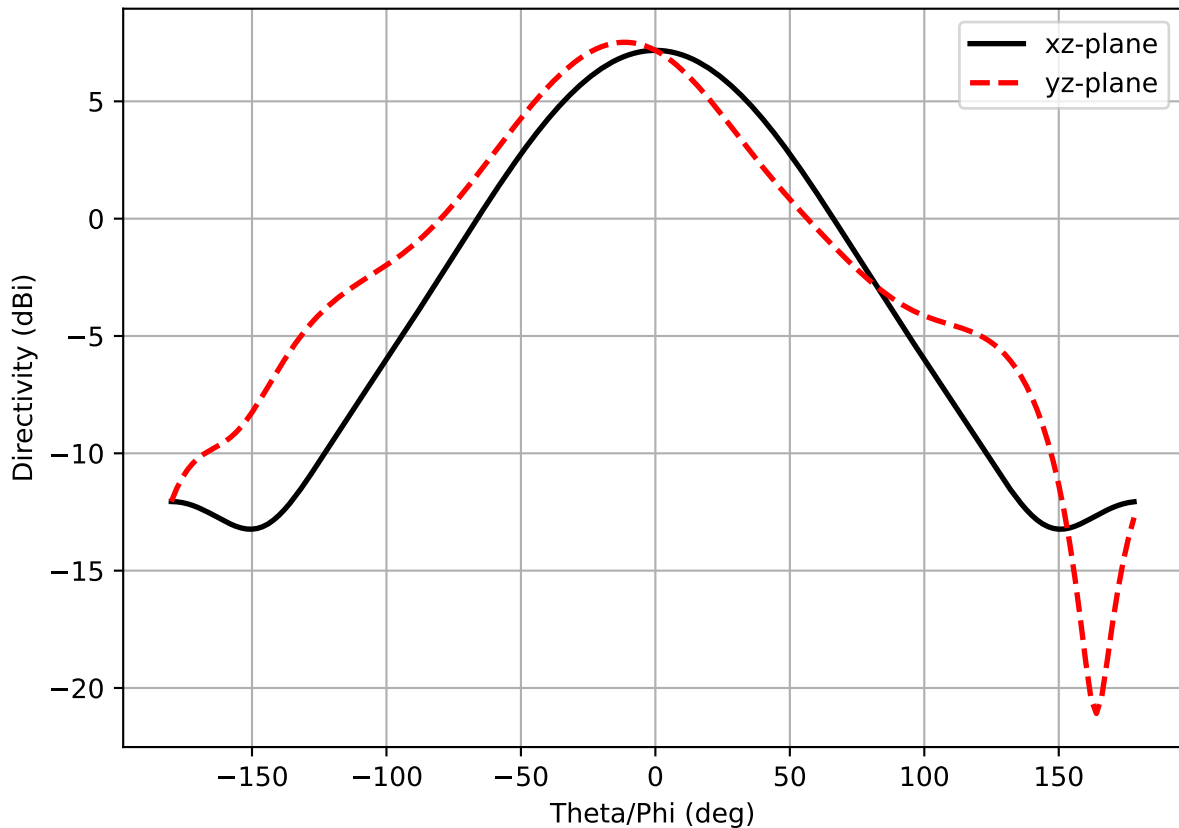
$f = 5.723 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 7.52 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 7.52 \text{ dB}$



Frequency: 5.723 GHz — Directivity (linear). Dmax: 5.645



Frequency: 5.723 GHz



3D Directivity Pattern
 $f = 5.723 \text{ GHz}$, $D_{\text{max}} = 7.51 \text{ dBi}$

