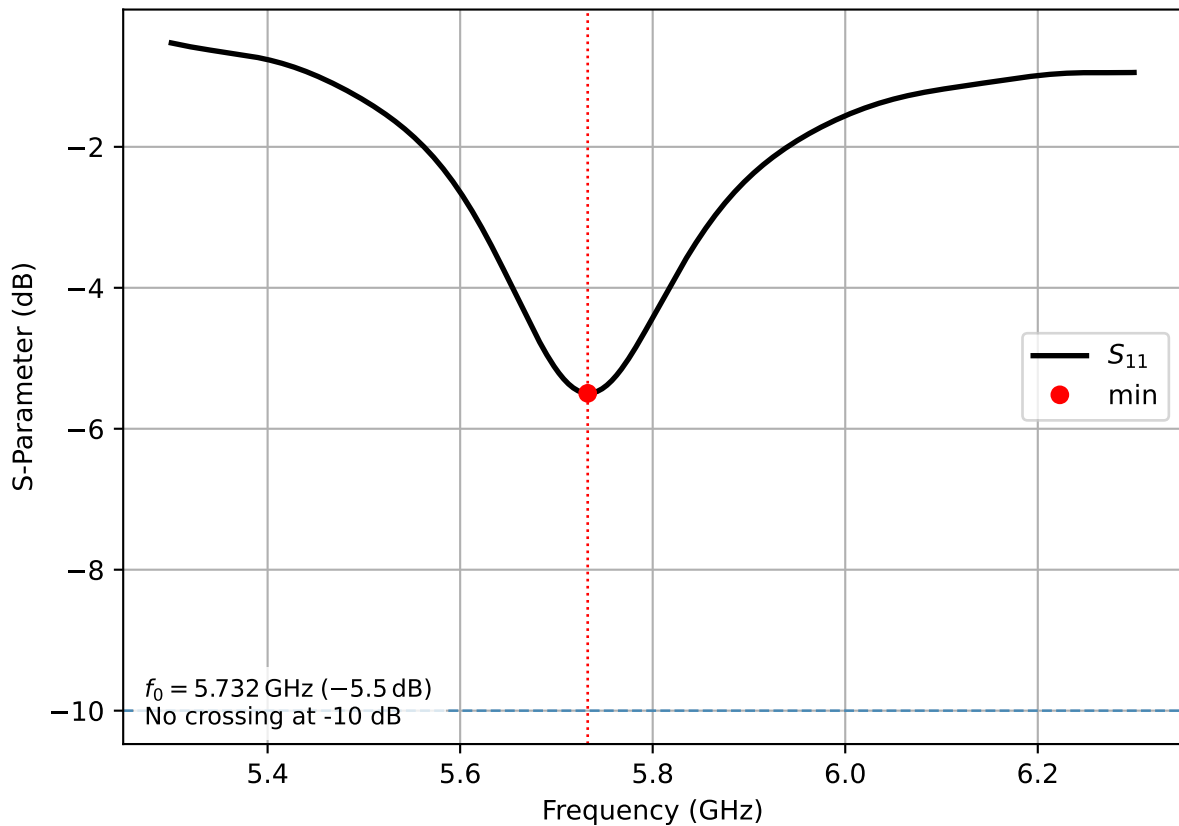
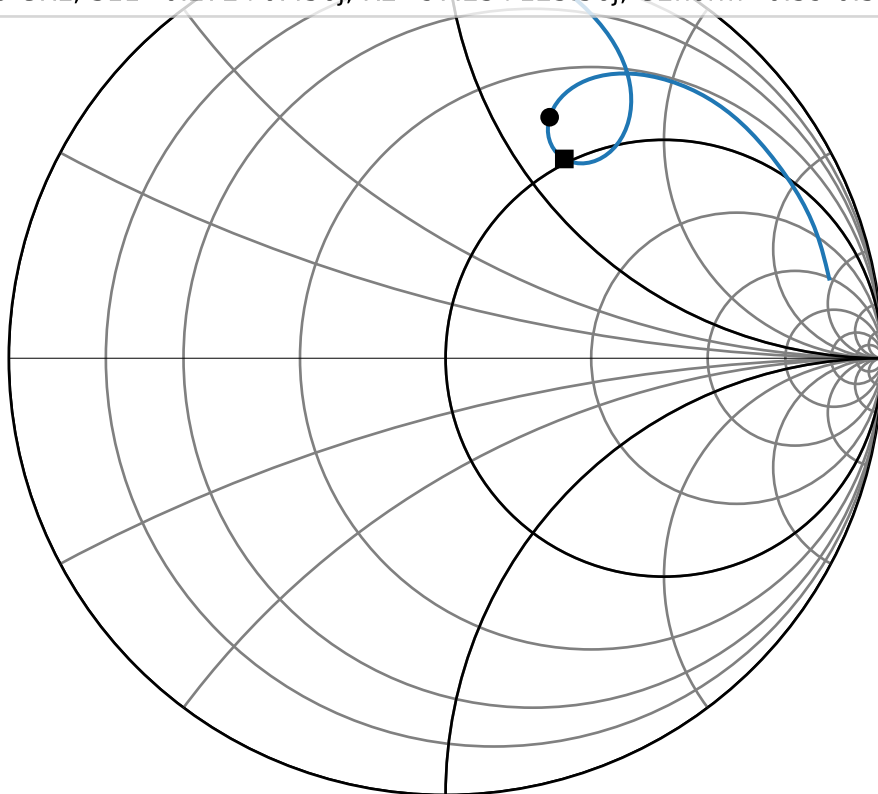


Reflection Coefficient S_{11}

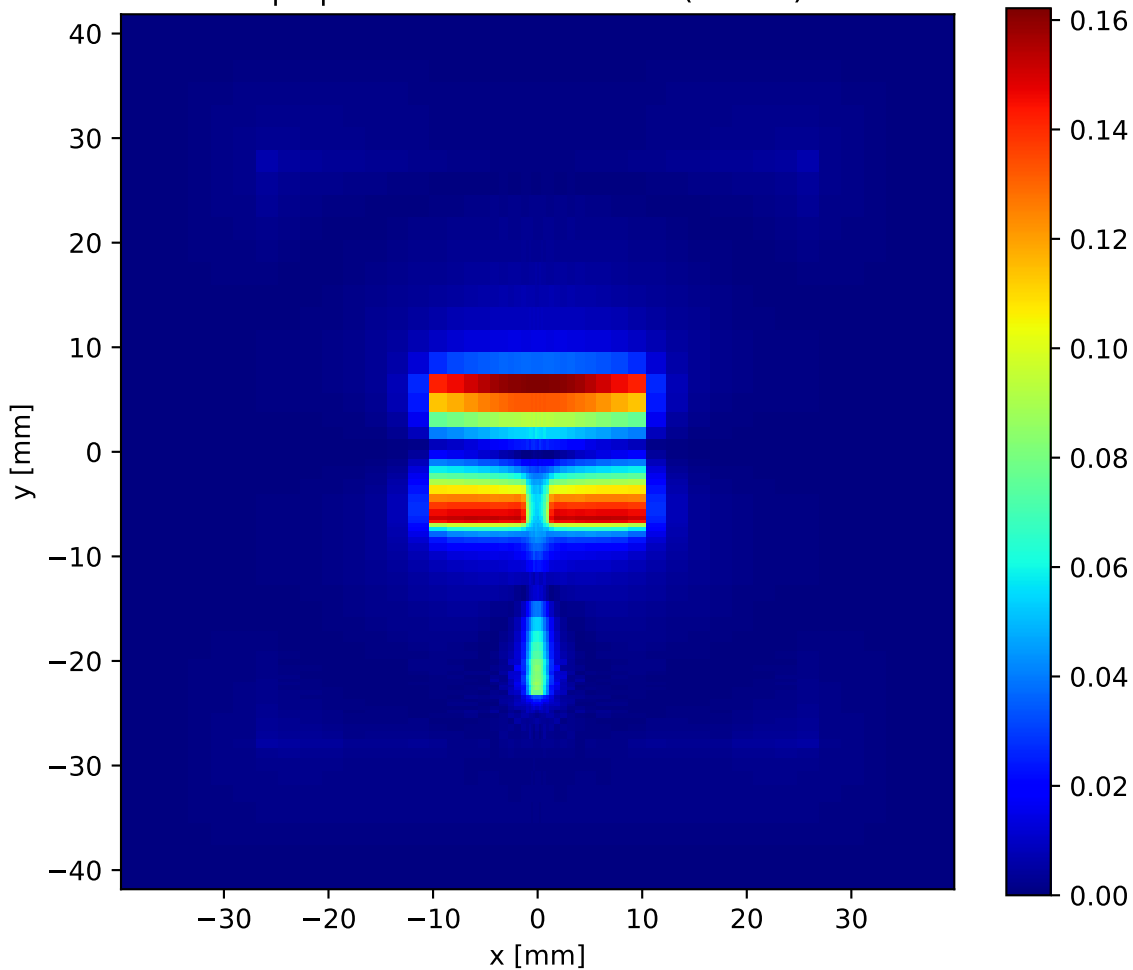


Smith Chart

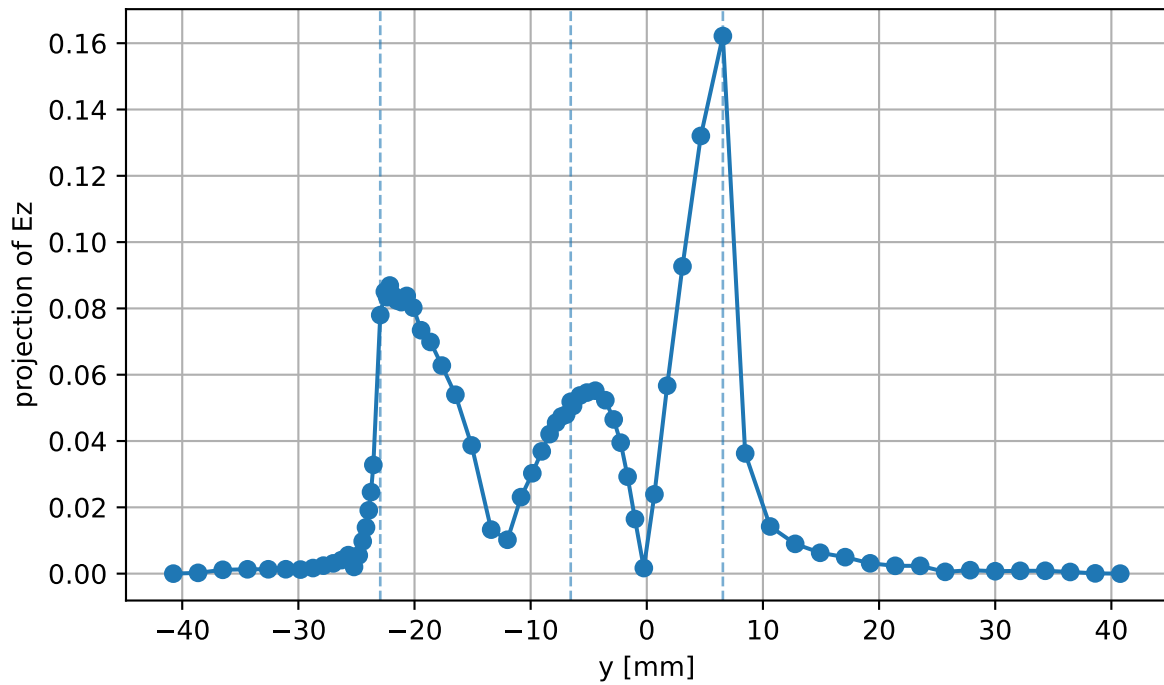
- S11 (Patch W=19.00 mm, L=13.10 mm)
- 5.80 GHz, $S_{11}=0.238+0.552j$, $R=72.20+124.72j$, $G_{\text{norm}}=0.35-0.60j$
- 5.73 GHz, $S_{11}=0.272+0.456j$, $R_2=97.23+123.56j$, $G_{2\text{norm}}=0.39-0.50j$



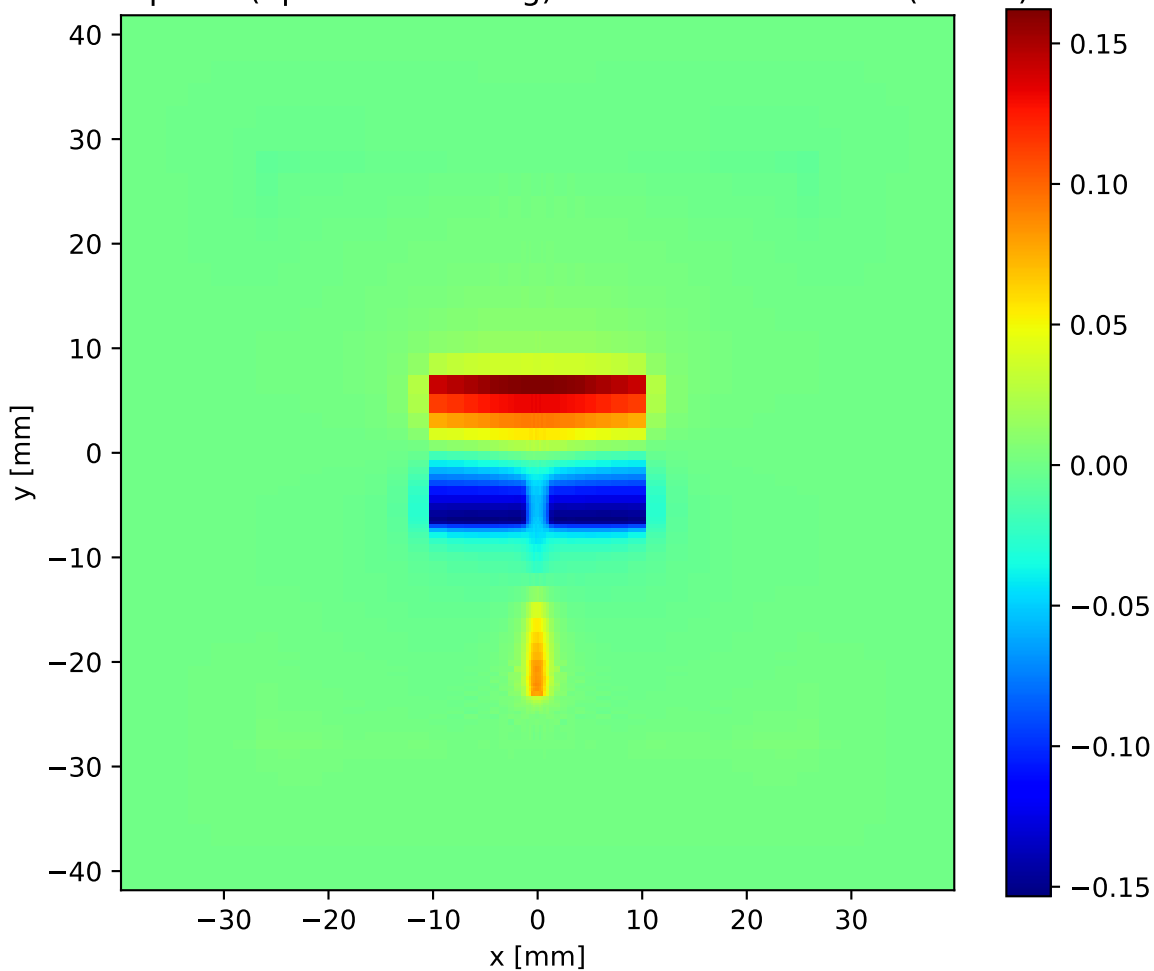
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



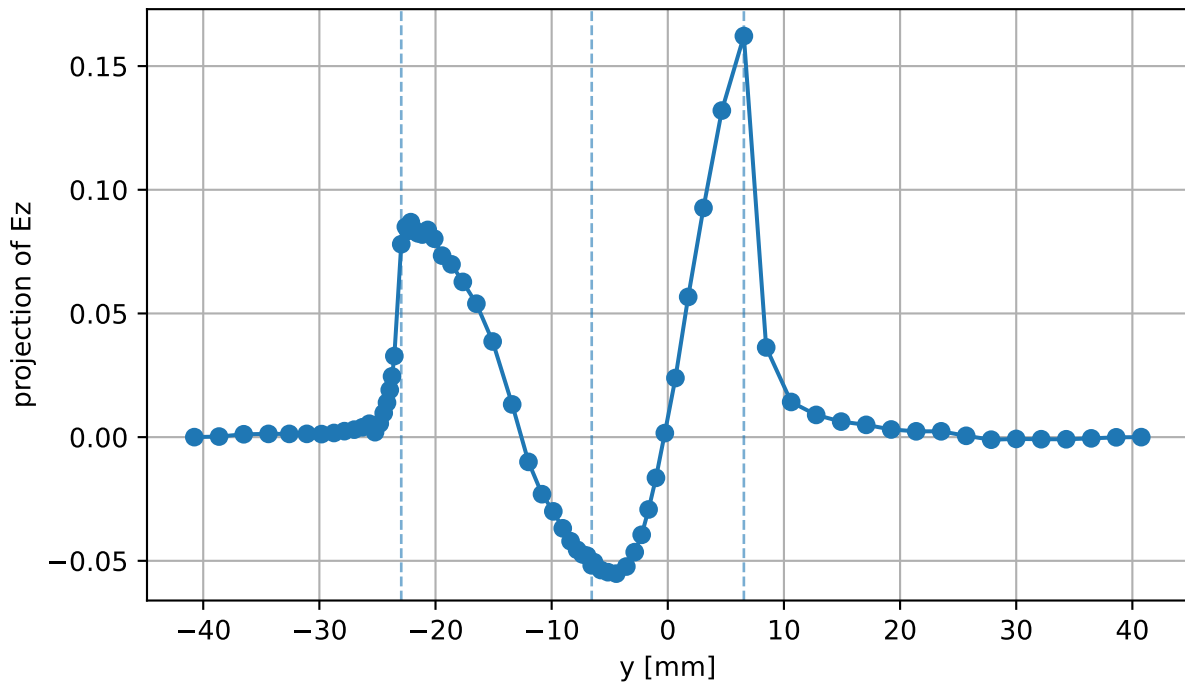
$|E_z|$ line cut along Y at $x=0.10$ mm, $z=0.76$ mm
(idx $x=28$, $z=15$)



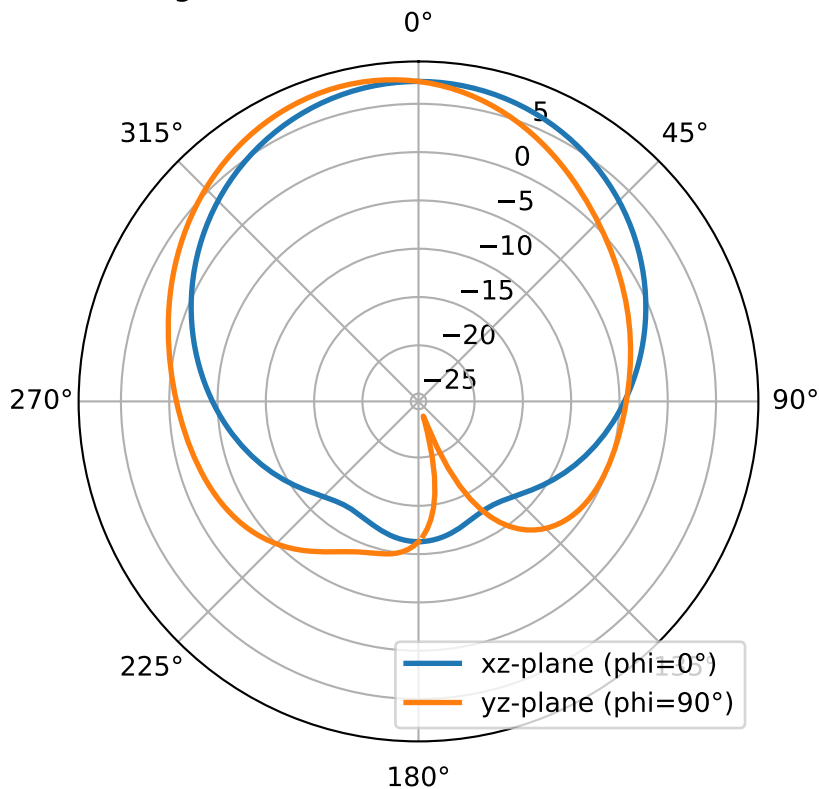
Ez snapshot (dphi=-179.67deg) slice at z = 0.76 mm (idx 15)



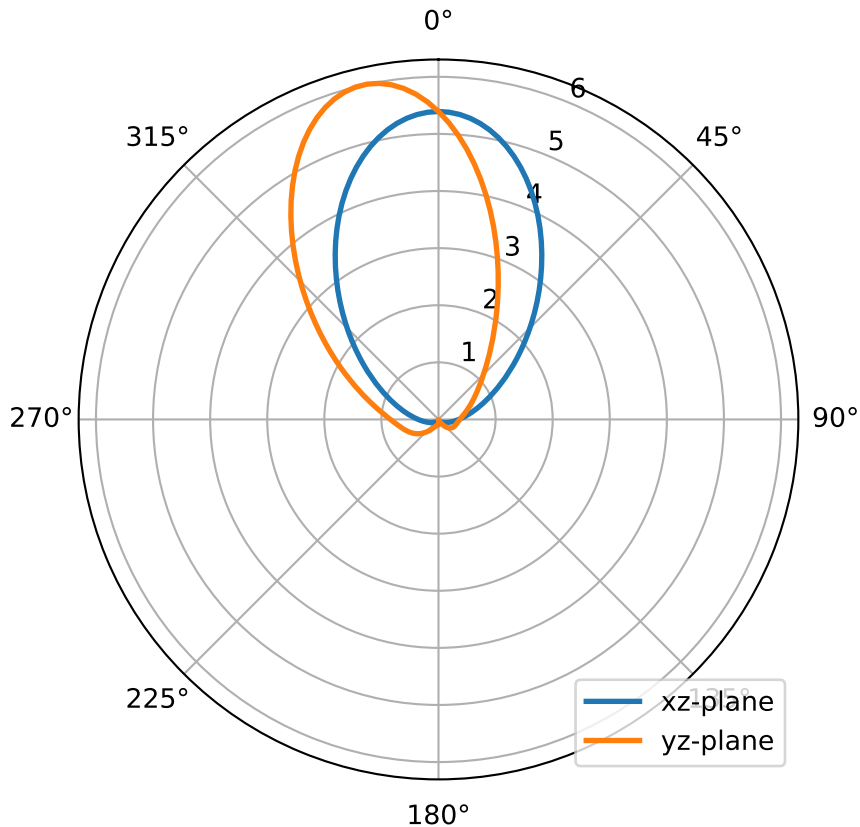
Ez snapshot (dphi=-179.67deg) line cut along Y at x=0.10 mm, z=0.76 mm
(idx x=28, z=15)



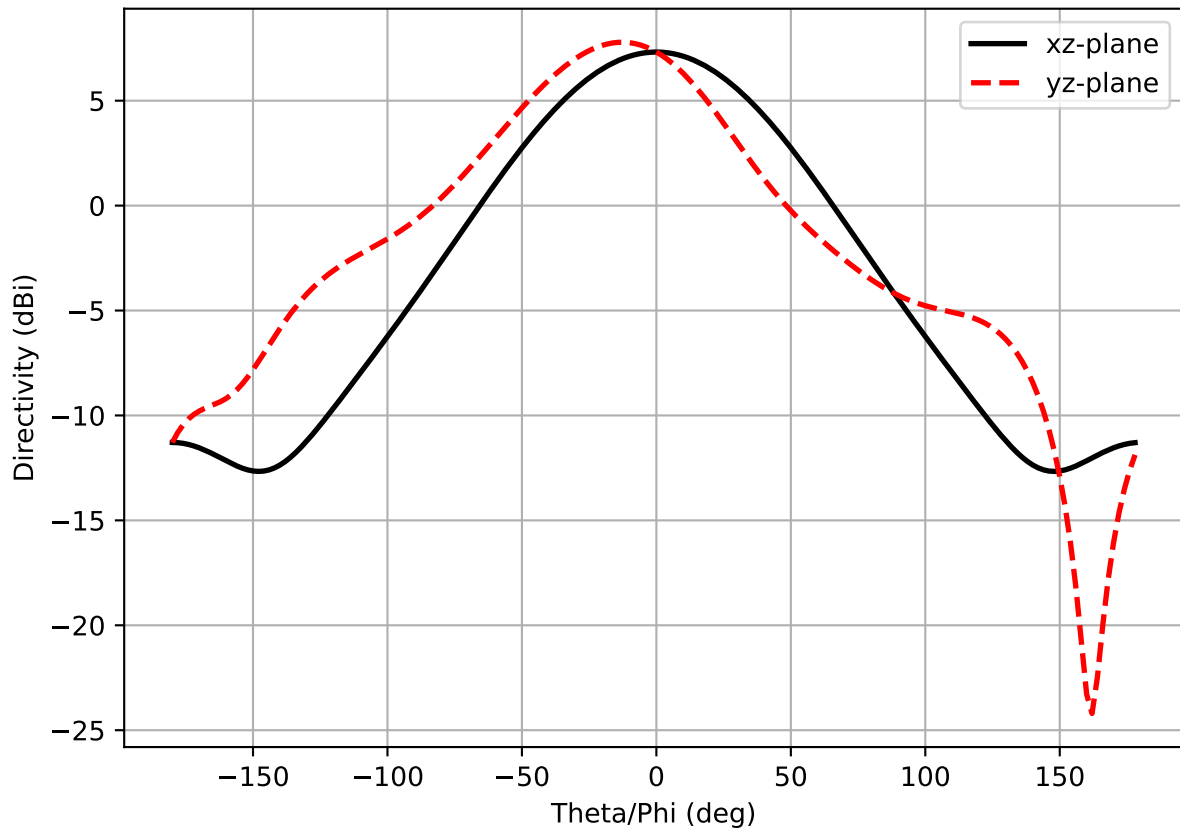
$f = 5.732 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 7.78 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 7.78 \text{ dB}$



Frequency: 5.732 GHz — Directivity (linear). Dmax: 6.003



Frequency: 5.732 GHz



3D Directivity Pattern
 $f = 5.732 \text{ GHz}$, $D_{\text{max}} = 7.77 \text{ dBi}$

