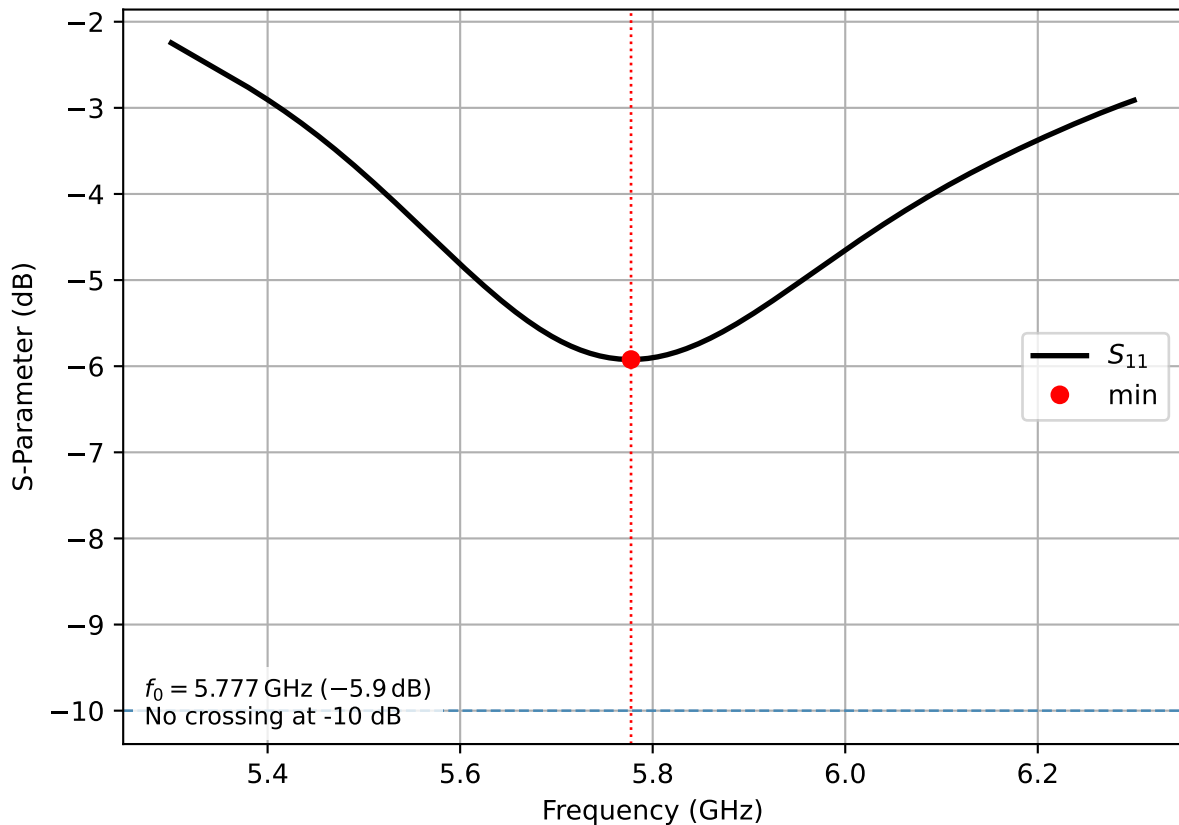


Reflection Coefficient  $S_{11}$

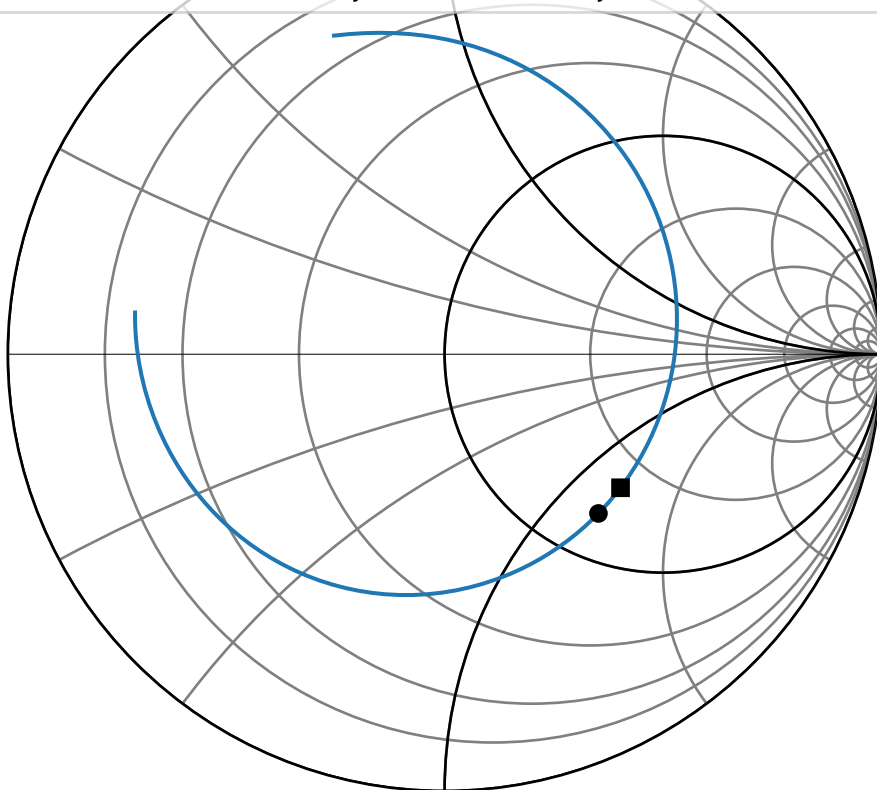


# Smith Chart

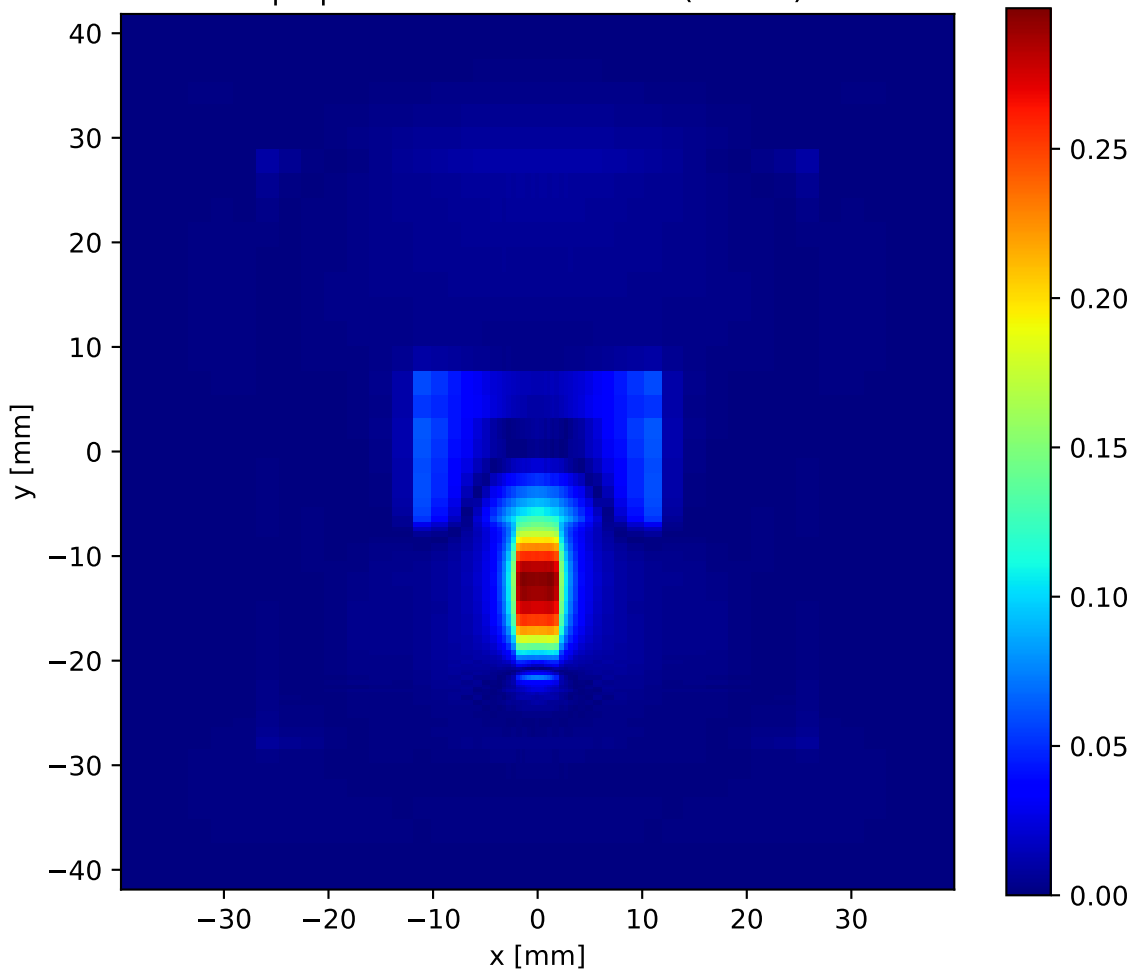
— S11 (Patch W=22.00 mm, L=13.10 mm)

● 5.80 GHz,  $S_{11}=0.352-0.365j$ ,  $R=67.25-65.98j$ ,  $G_{\text{norm}}=0.38+0.37j$

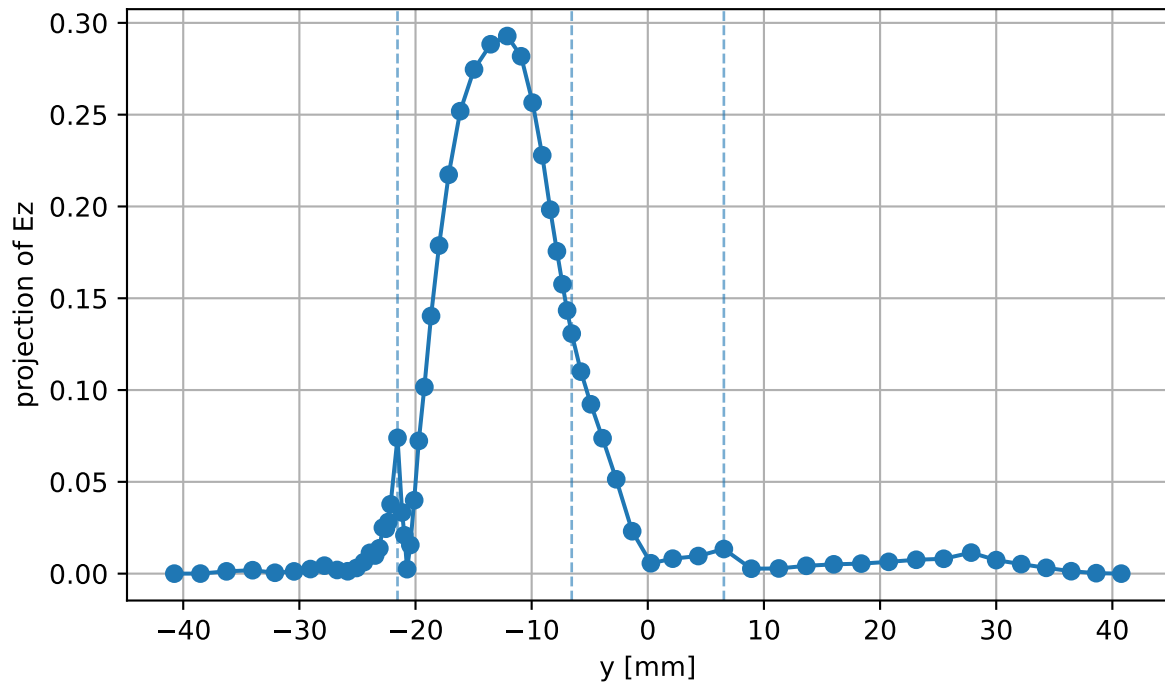
■ 5.78 GHz,  $S_{11}=0.403-0.306j$ ,  $R_2=82.68-67.92j$ ,  $G_{2\text{norm}}=0.36+0.30j$



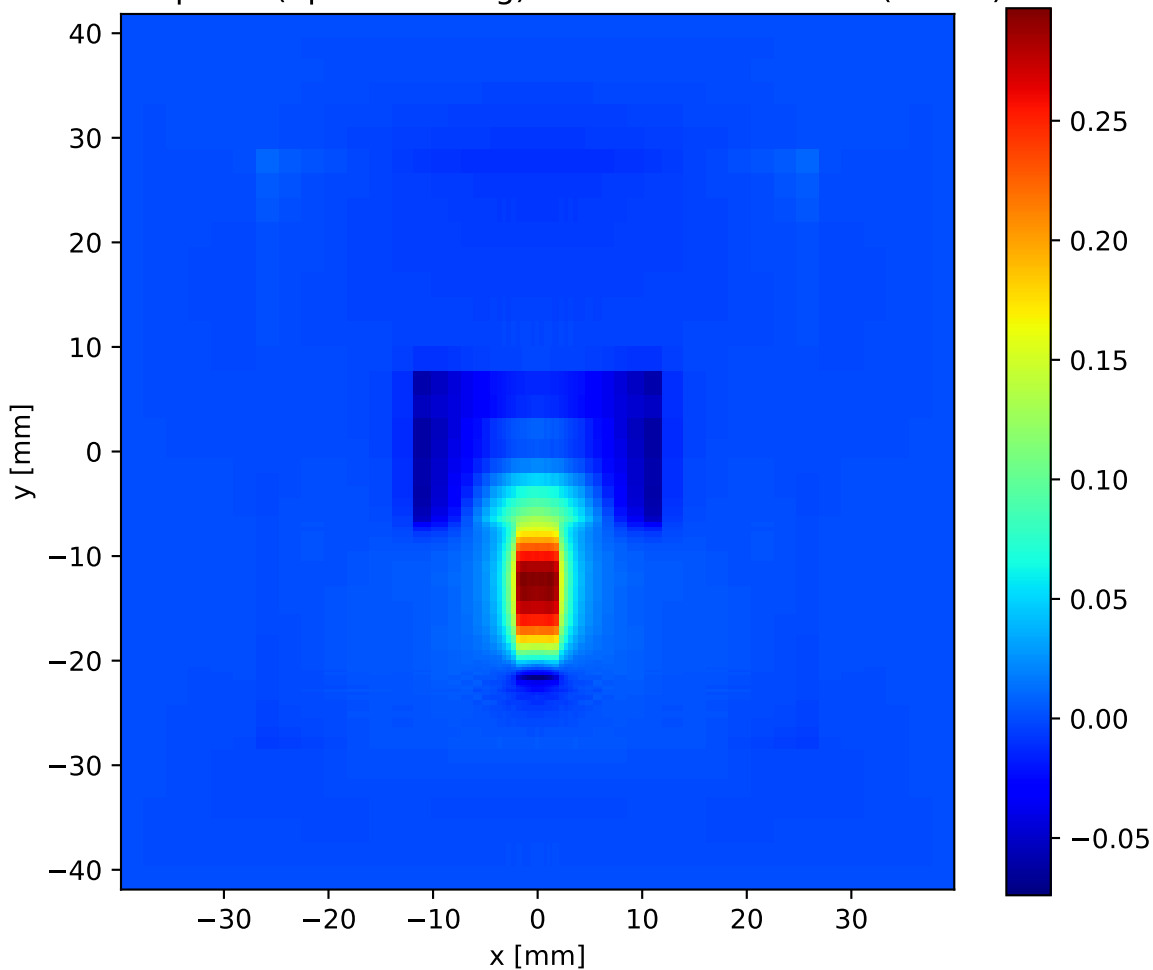
$|E_z|$  slice at  $z = 0.76$  mm (idx 15)



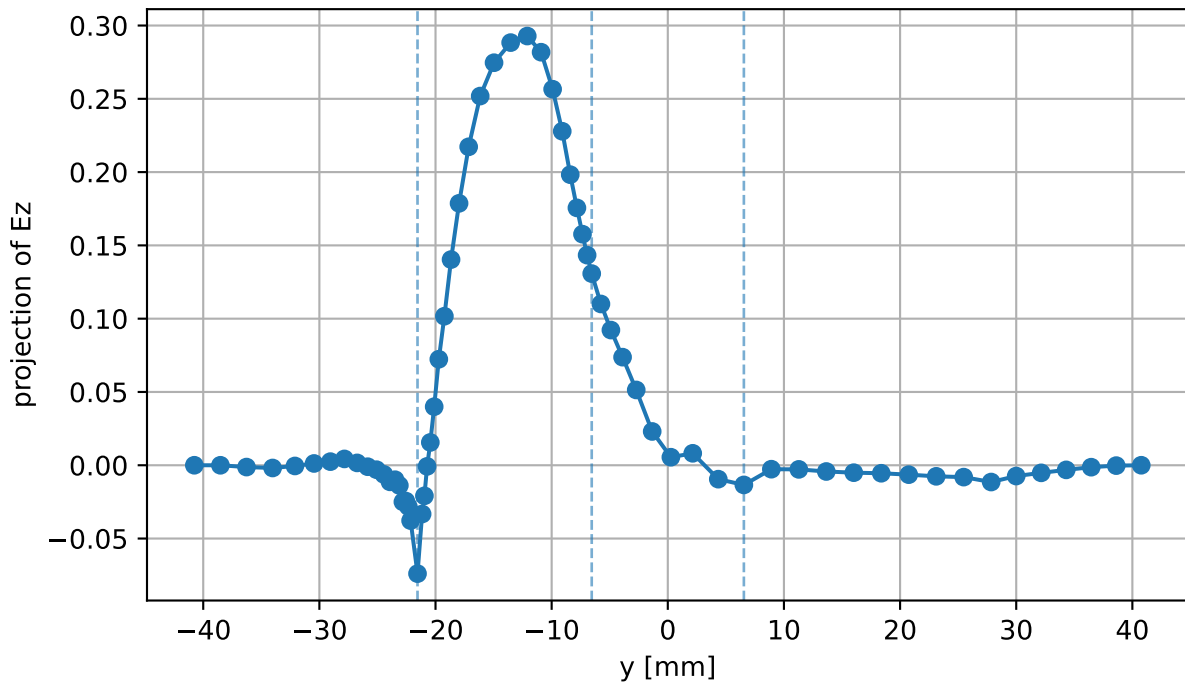
$|E_z|$  line cut along Y at  $x=0.00$  mm,  $z=0.76$  mm  
(idx x=30, z=15)



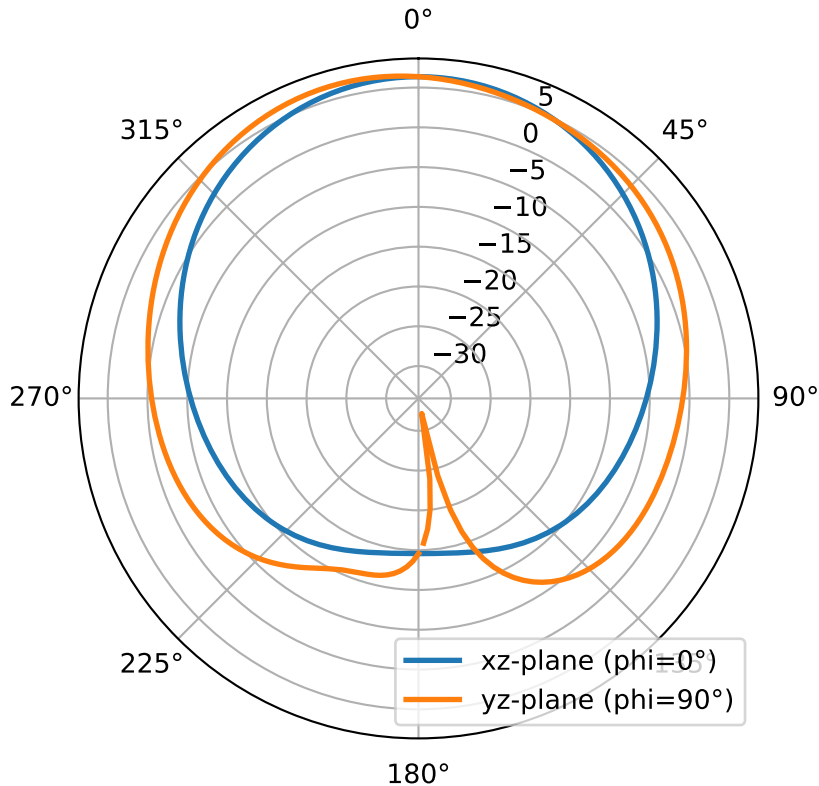
Ez snapshot (dphi=0.15deg) slice at  $z = 0.76$  mm (idx 15)



Ez snapshot (dphi=0.15deg) line cut along Y at x=0.00 mm, z=0.76 mm  
(idx x=30, z=15)

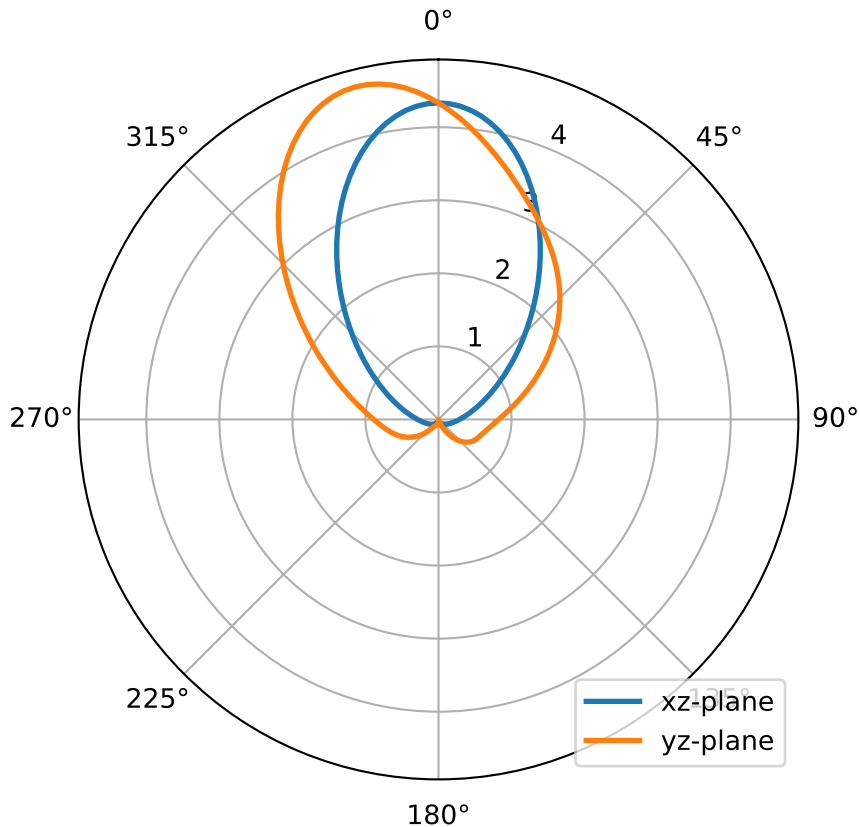


$f = 5.777 \text{ GHz}$  — Directivity (dB)  
 $D_{\text{max}} (\text{integrated}) \approx 6.71 \text{ dB}$ ,  $\text{nf2ff } D_{\text{max}} = 6.71 \text{ dB}$





Frequency: 5.777 GHz — Directivity (linear). Dmax: 4.692



Frequency: 5.777 GHz  
xz-plane: HPBW=76.0°  
yz-plane: HPBW=99.9°

