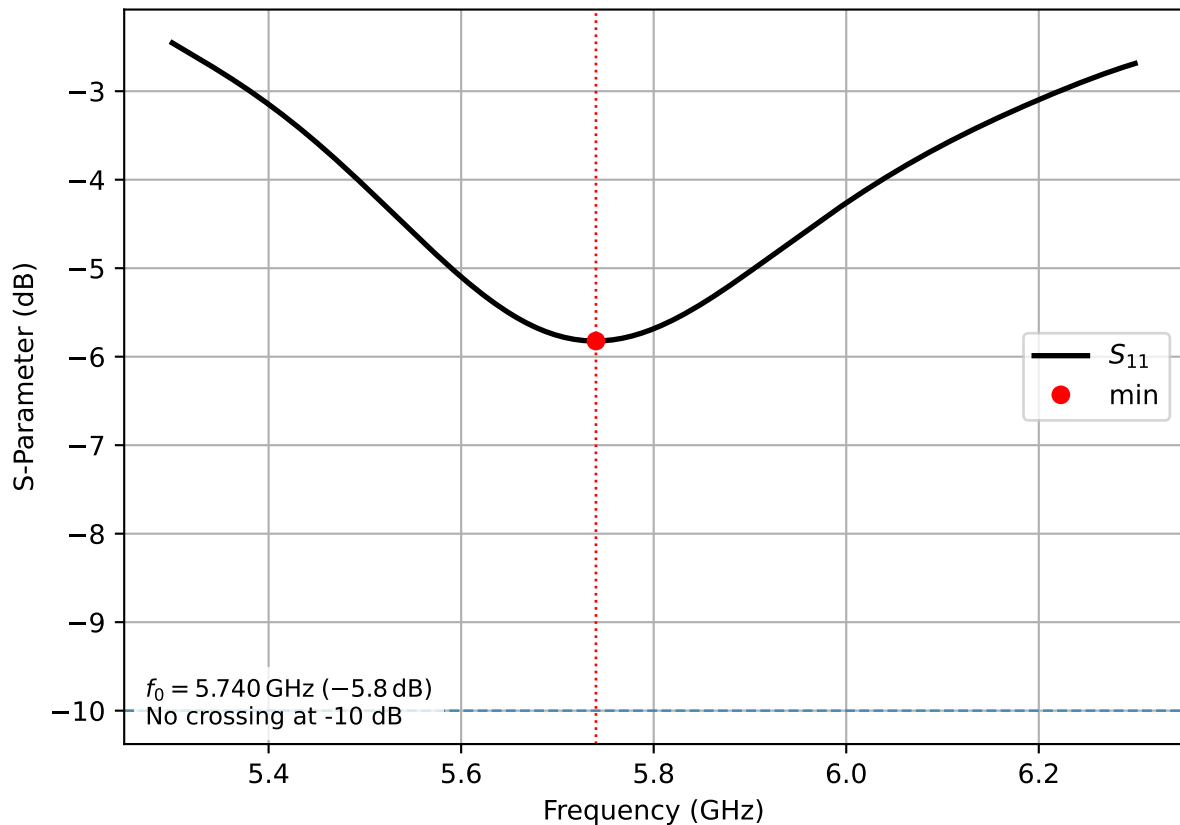


Reflection Coefficient S_{11}

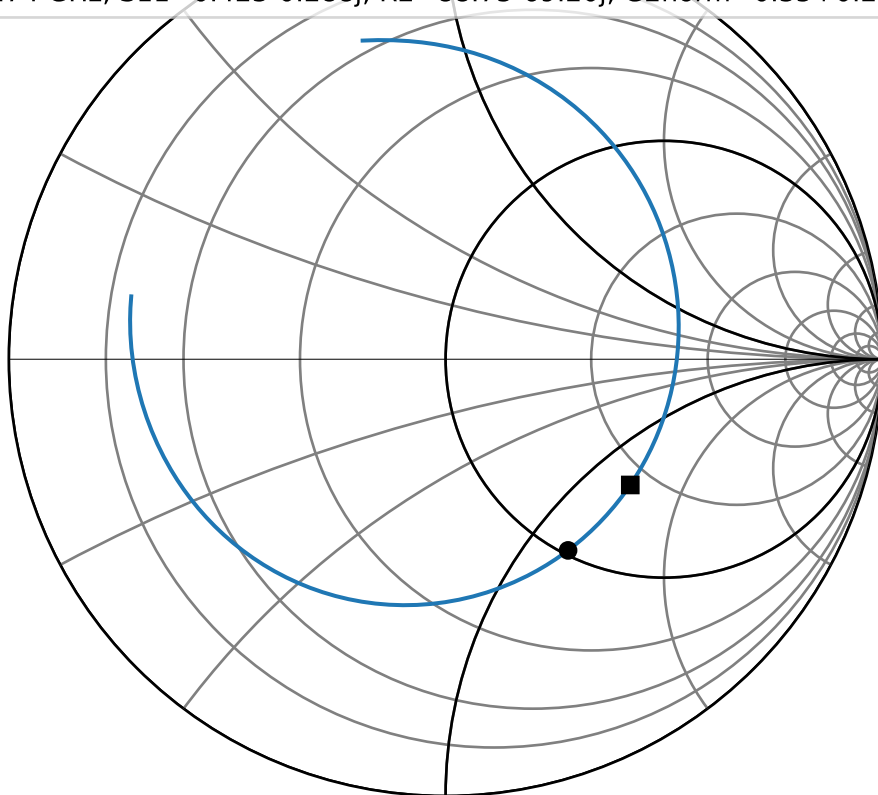


Smith Chart

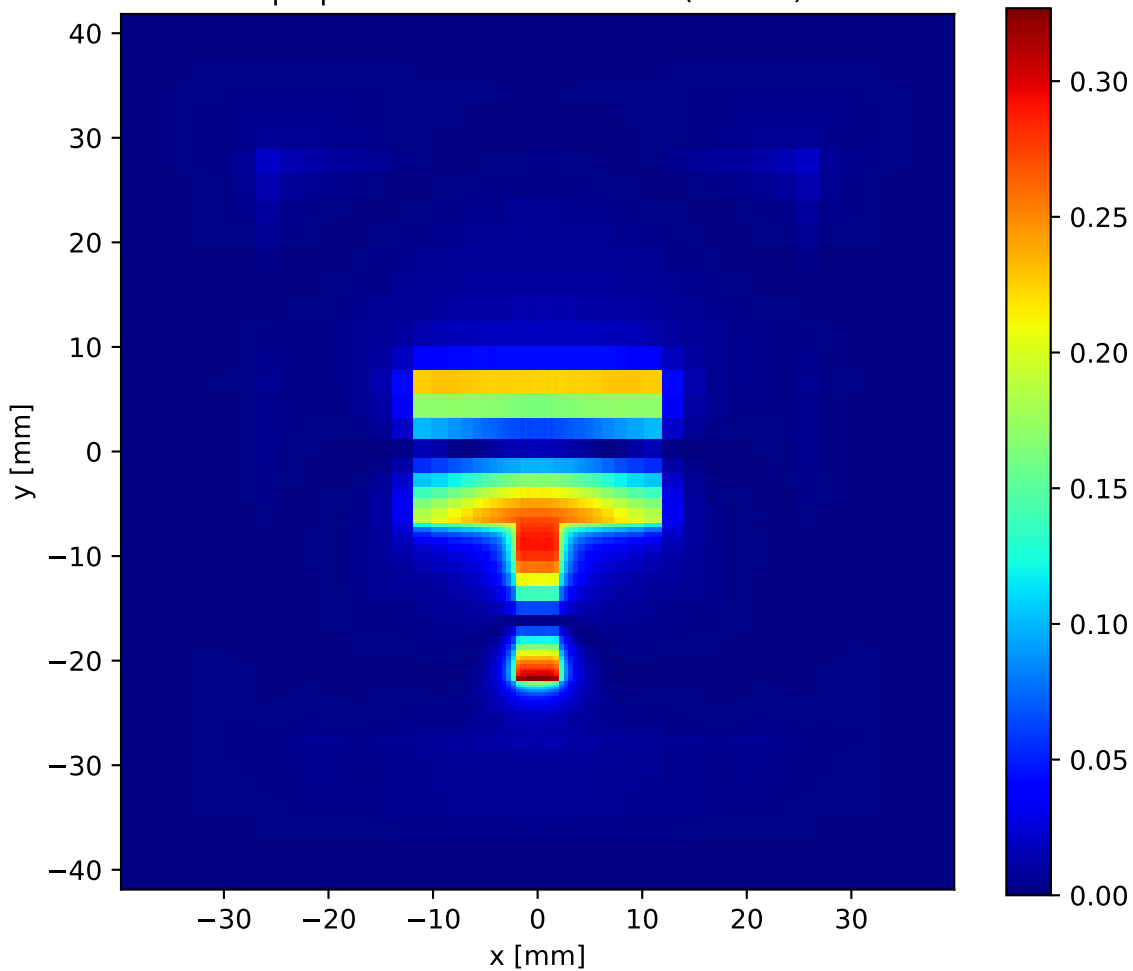
— S11 (Patch W=22.00 mm, L=13.20 mm)

● 5.80 GHz, $S_{11}=0.280-0.438j$, $R=51.44-61.69j$, $G_{\text{norm}}=0.40+0.48j$

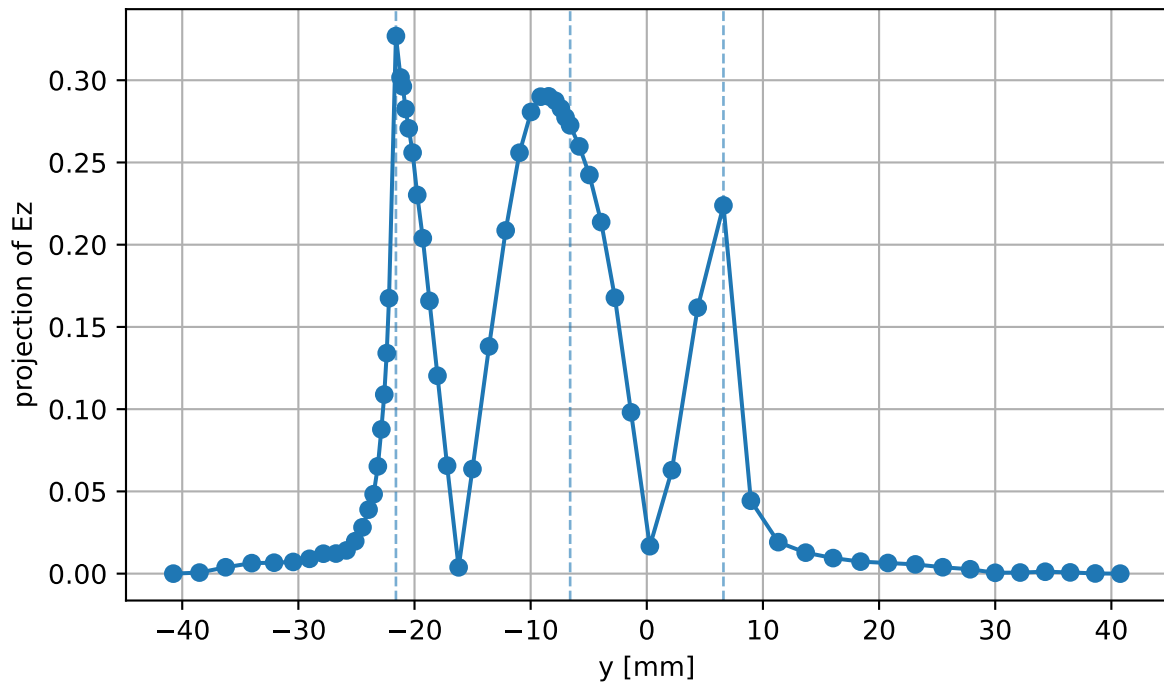
■ 5.74 GHz, $S_{11}=0.423-0.288j$, $R_2=88.75-69.20j$, $G_{2\text{norm}}=0.35+0.27j$



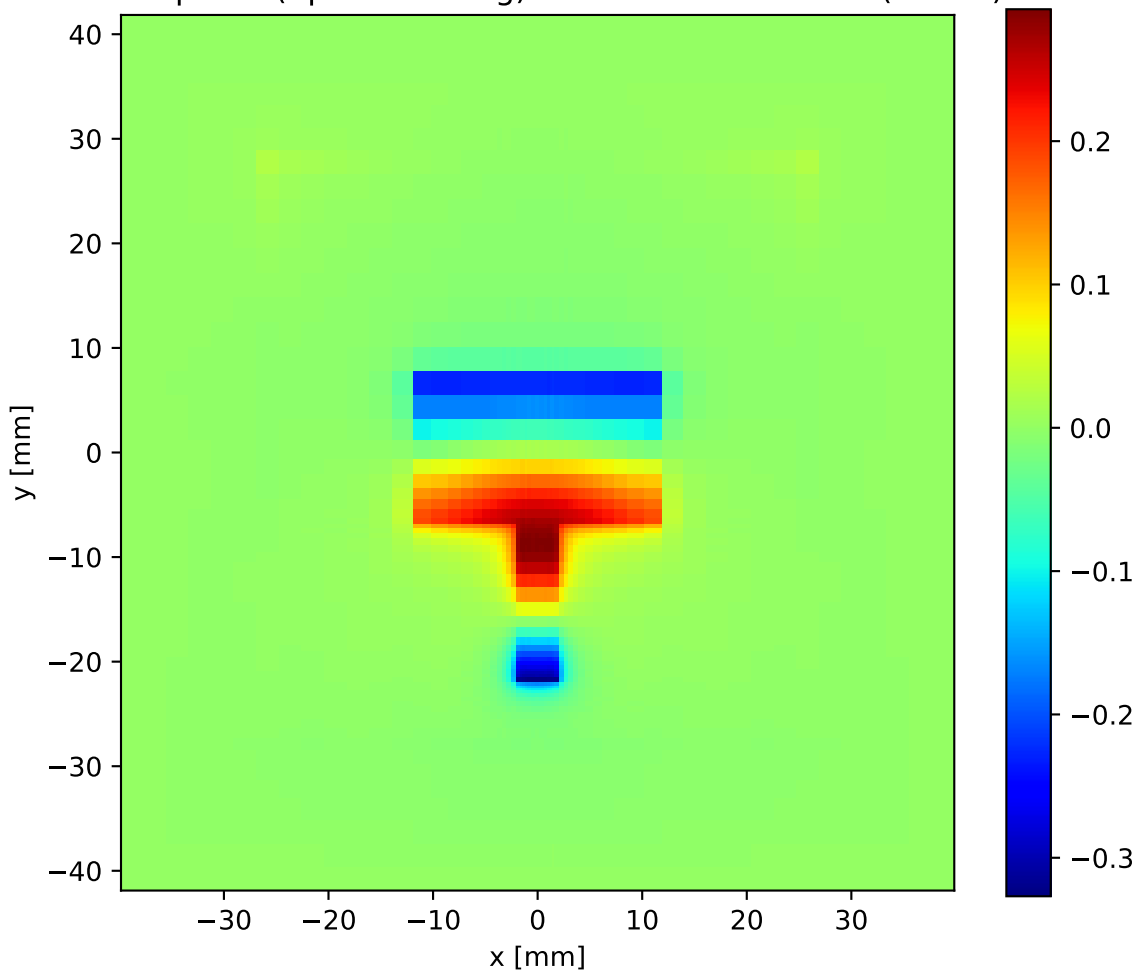
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



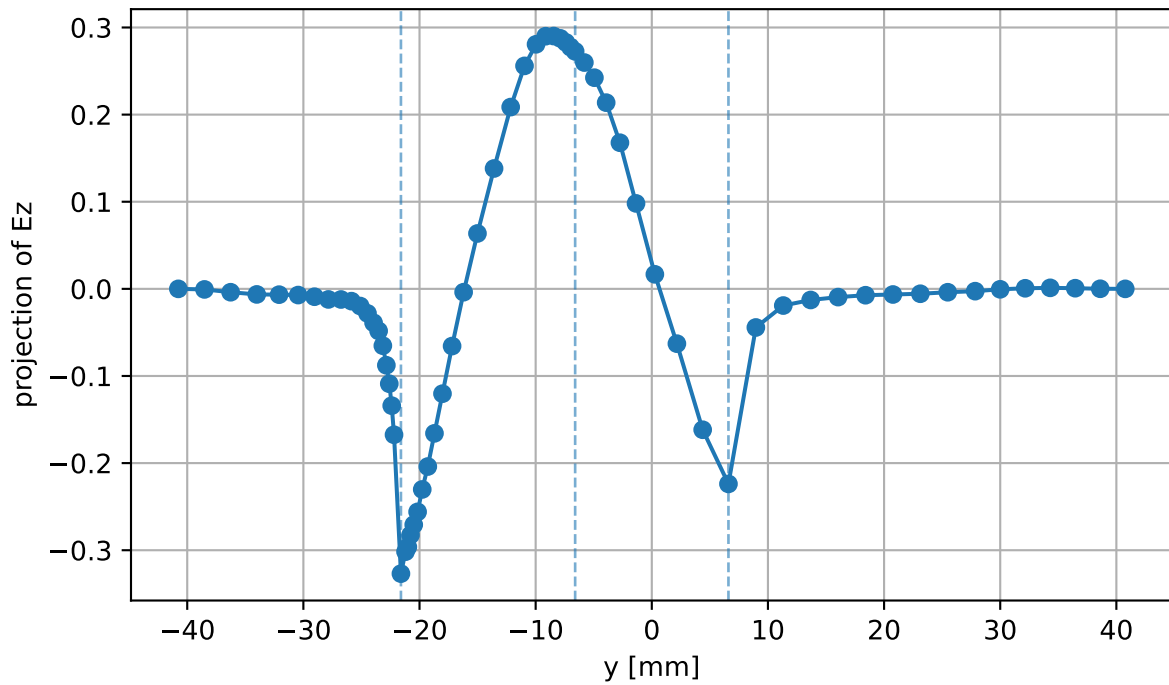
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx x=30, z=15)



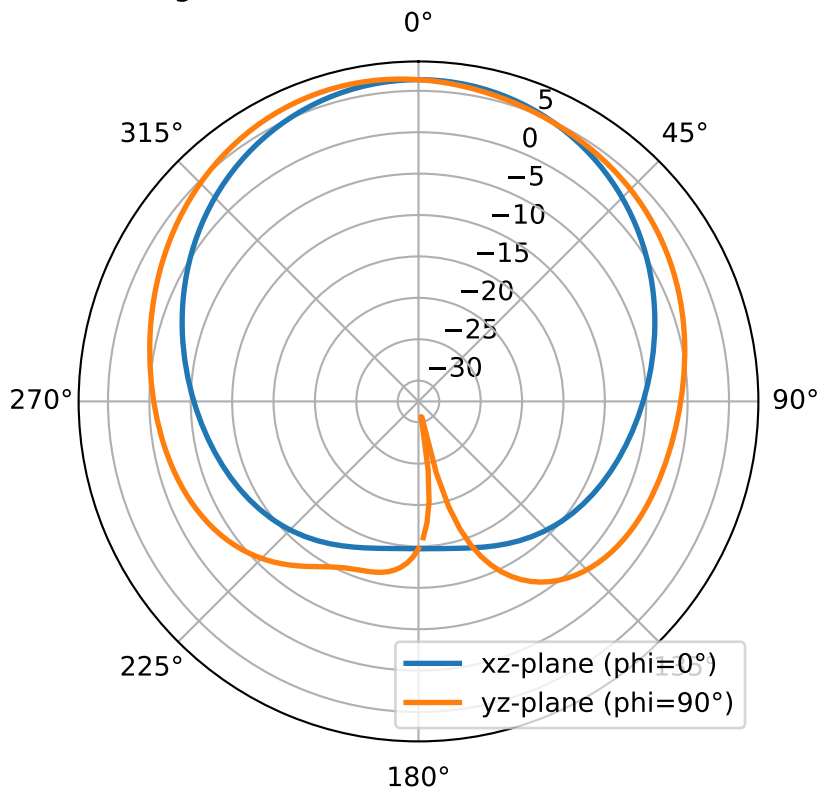
Ez snapshot (dphi=0.00deg) slice at z = 0.76 mm (idx 15)



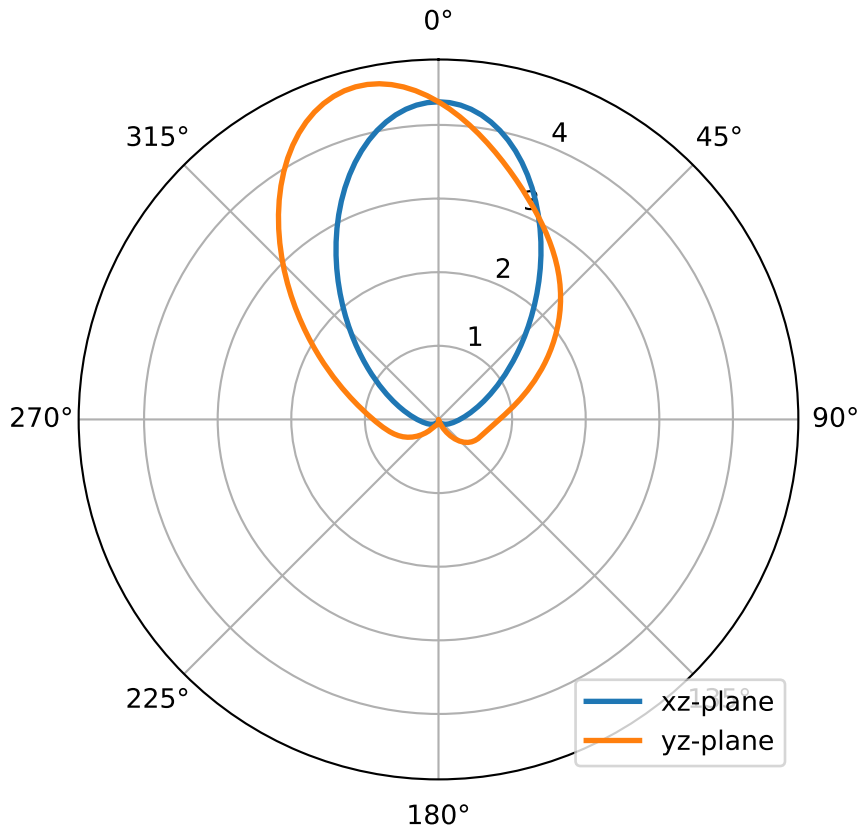
Ez snapshot (dphi=0.00deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=30, z=15)



$f = 5.740 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 6.68 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 6.68 \text{ dB}$



Frequency: 5.740 GHz — Directivity (linear). Dmax: 4.656



Frequency: 5.740 GHz
xz-plane: HPBW=78.1°
yz-plane: HPBW=100.0°

