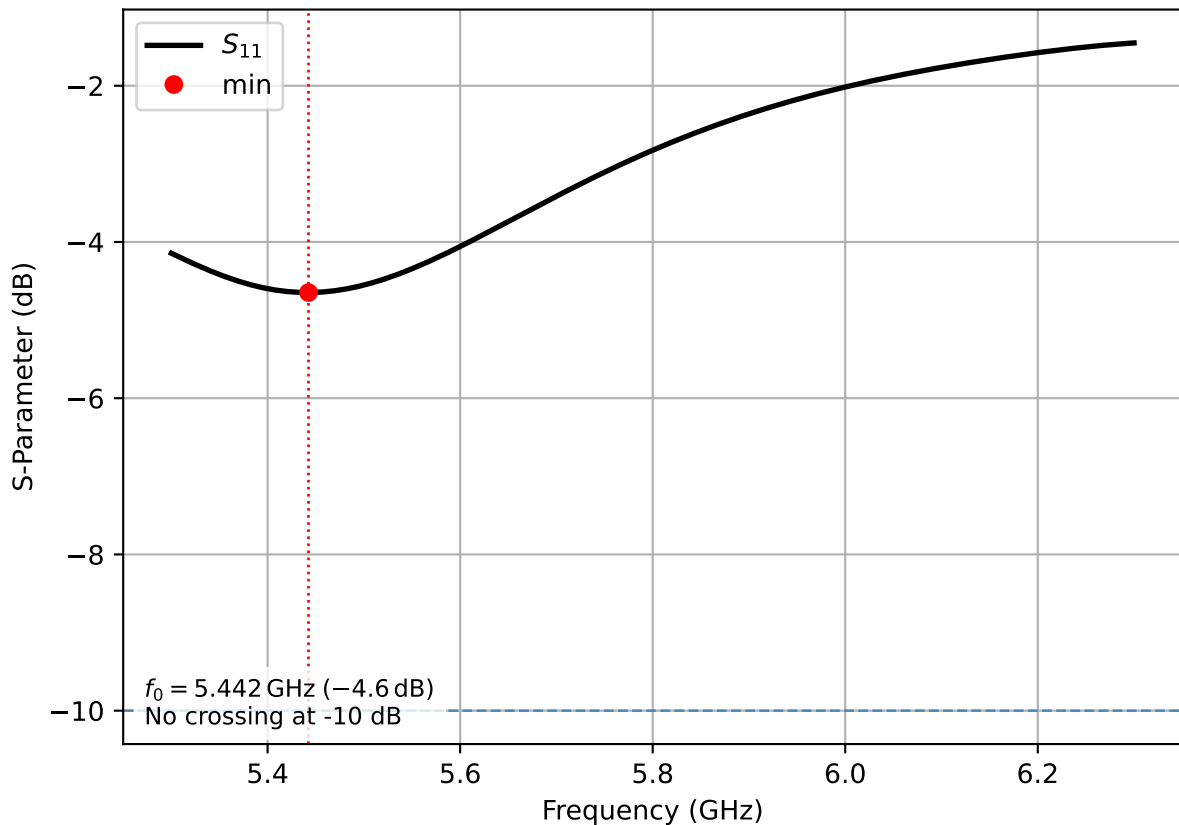


Reflection Coefficient S_{11}

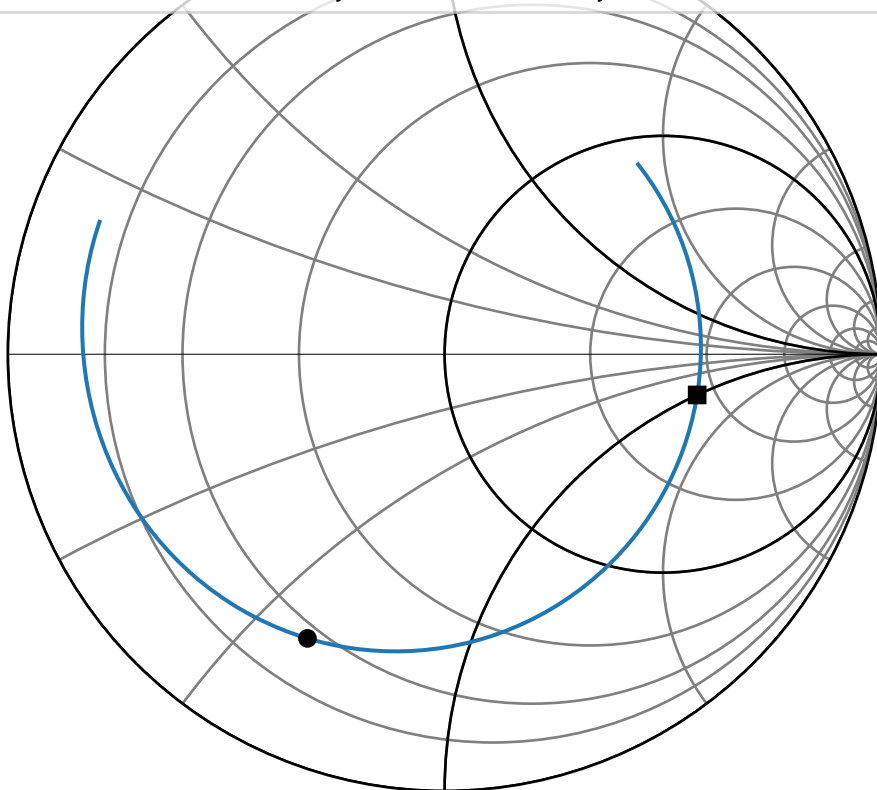


Smith Chart

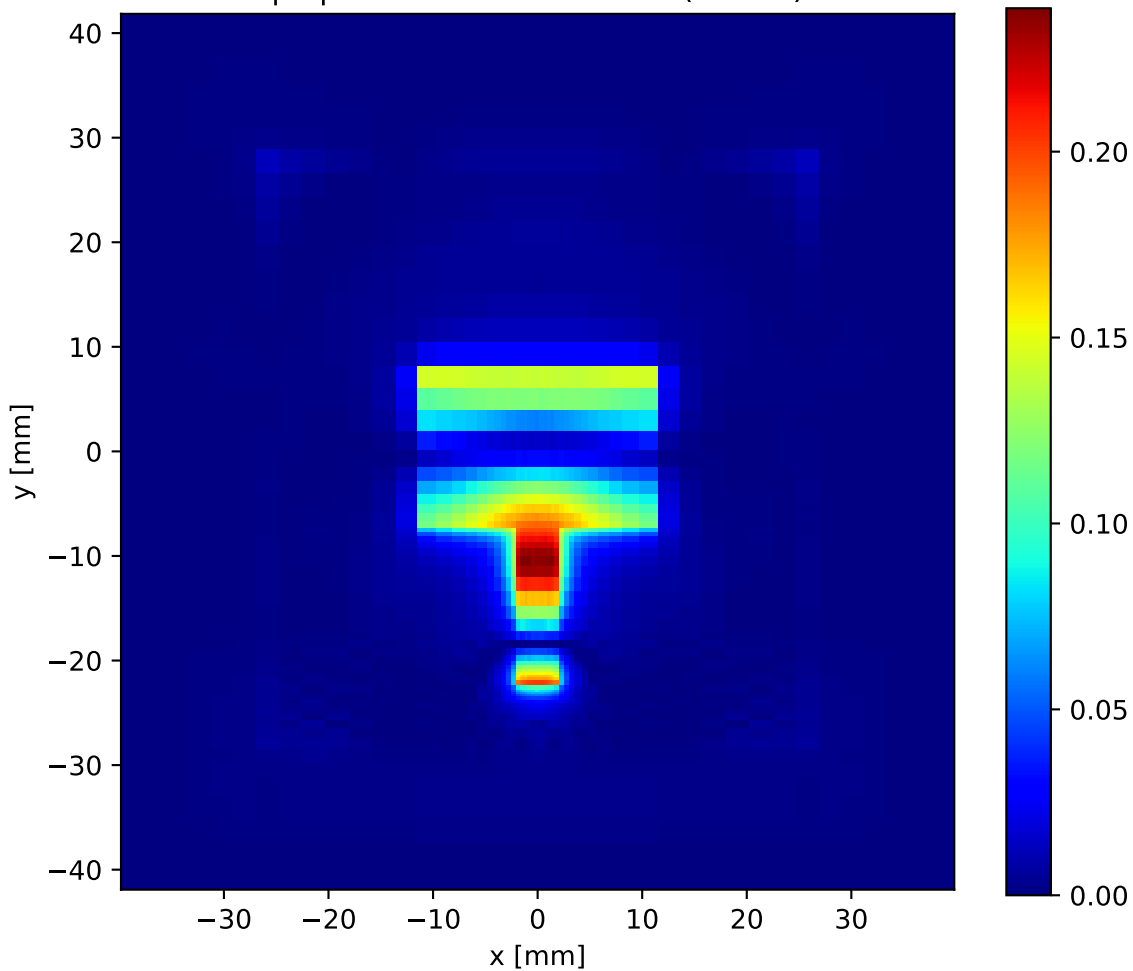
— S11 (Patch W=21.10 mm, L=14.10 mm)

● 5.80 GHz, S11=-0.314-0.651j, R=11.12-30.26j, Gnorm=0.54+1.46j

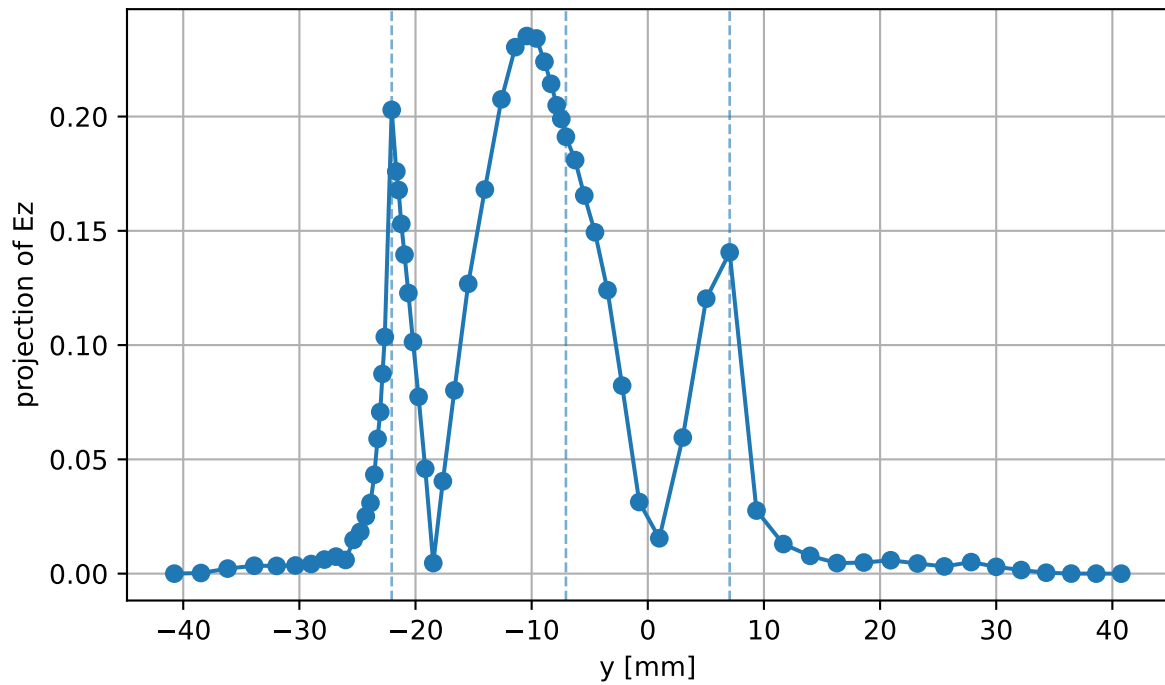
■ 5.44 GHz, S11=0.578-0.093j, R2=176.03-49.95j, G2norm=0.26+0.07j



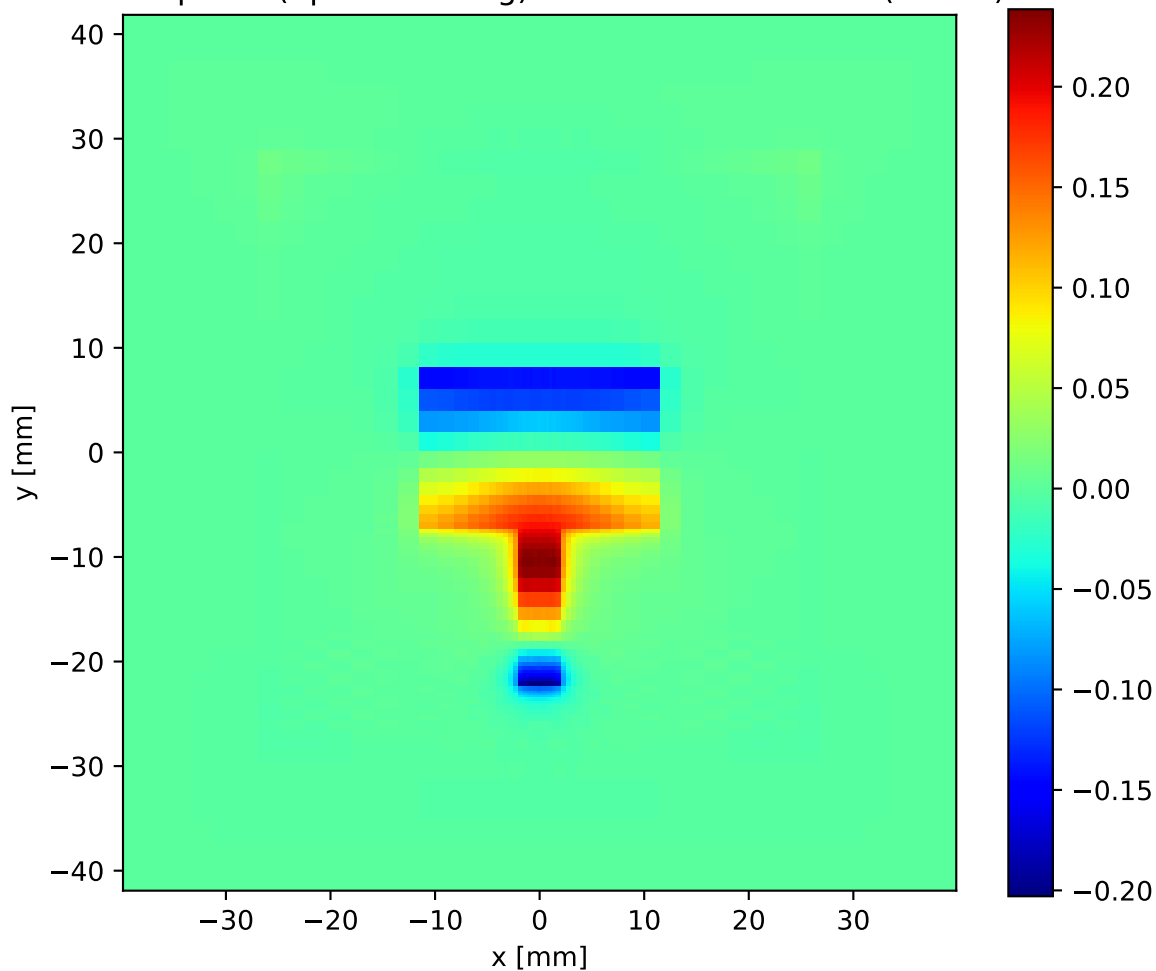
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



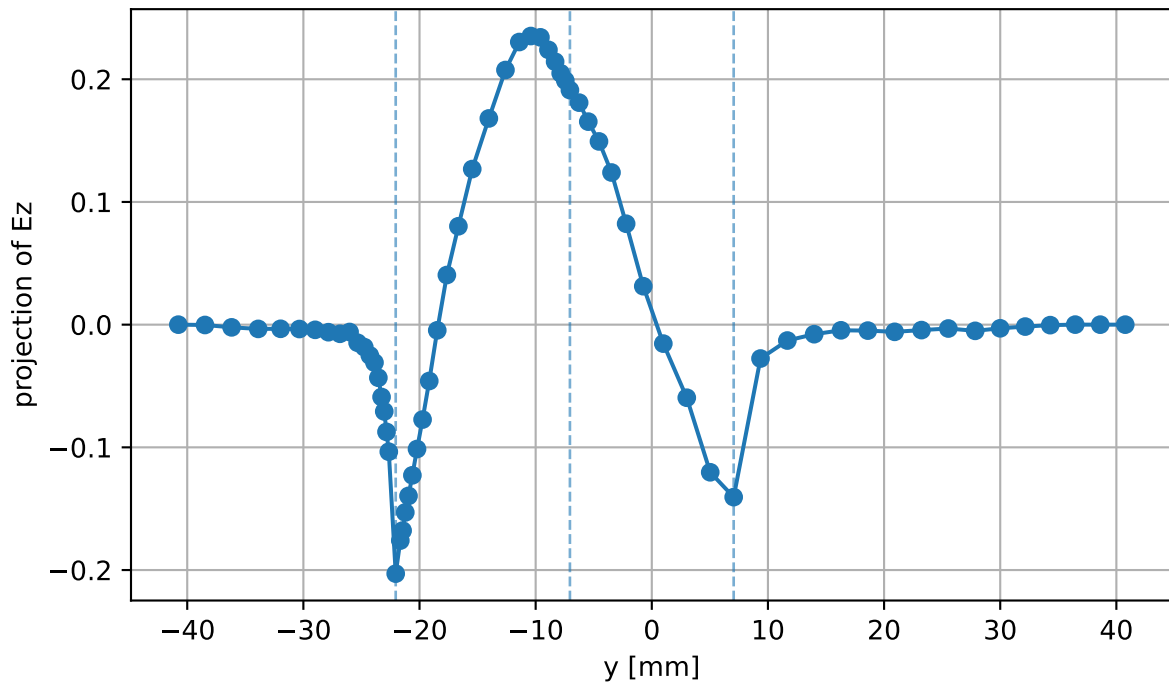
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=29$, $z=15$)



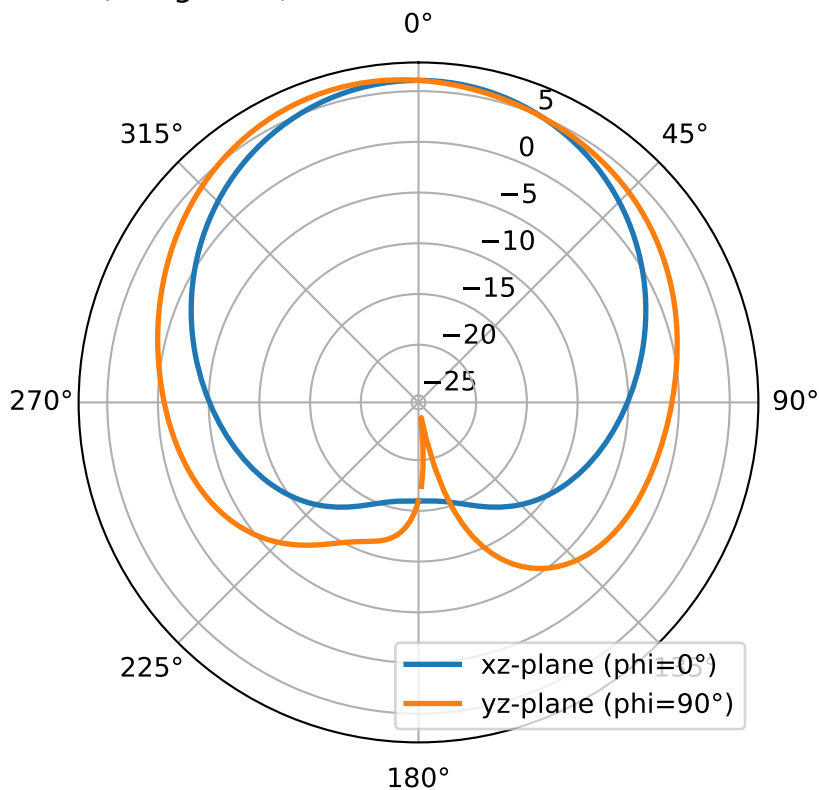
Ez snapshot (dphi=0.00deg) slice at z = 0.76 mm (idx 15)



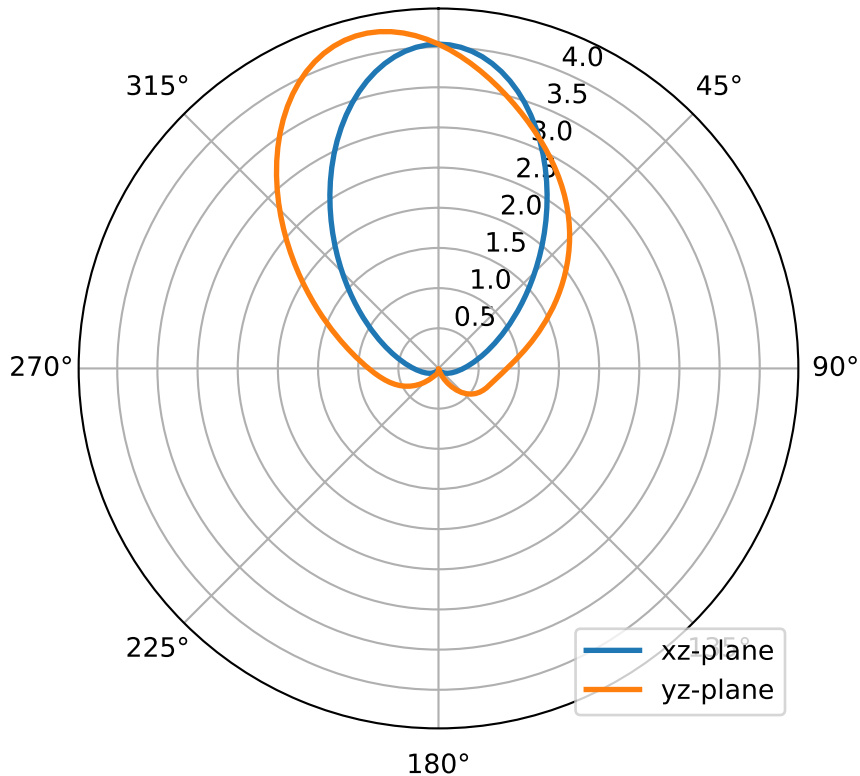
Ez snapshot (dphi=0.00deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=29, z=15)



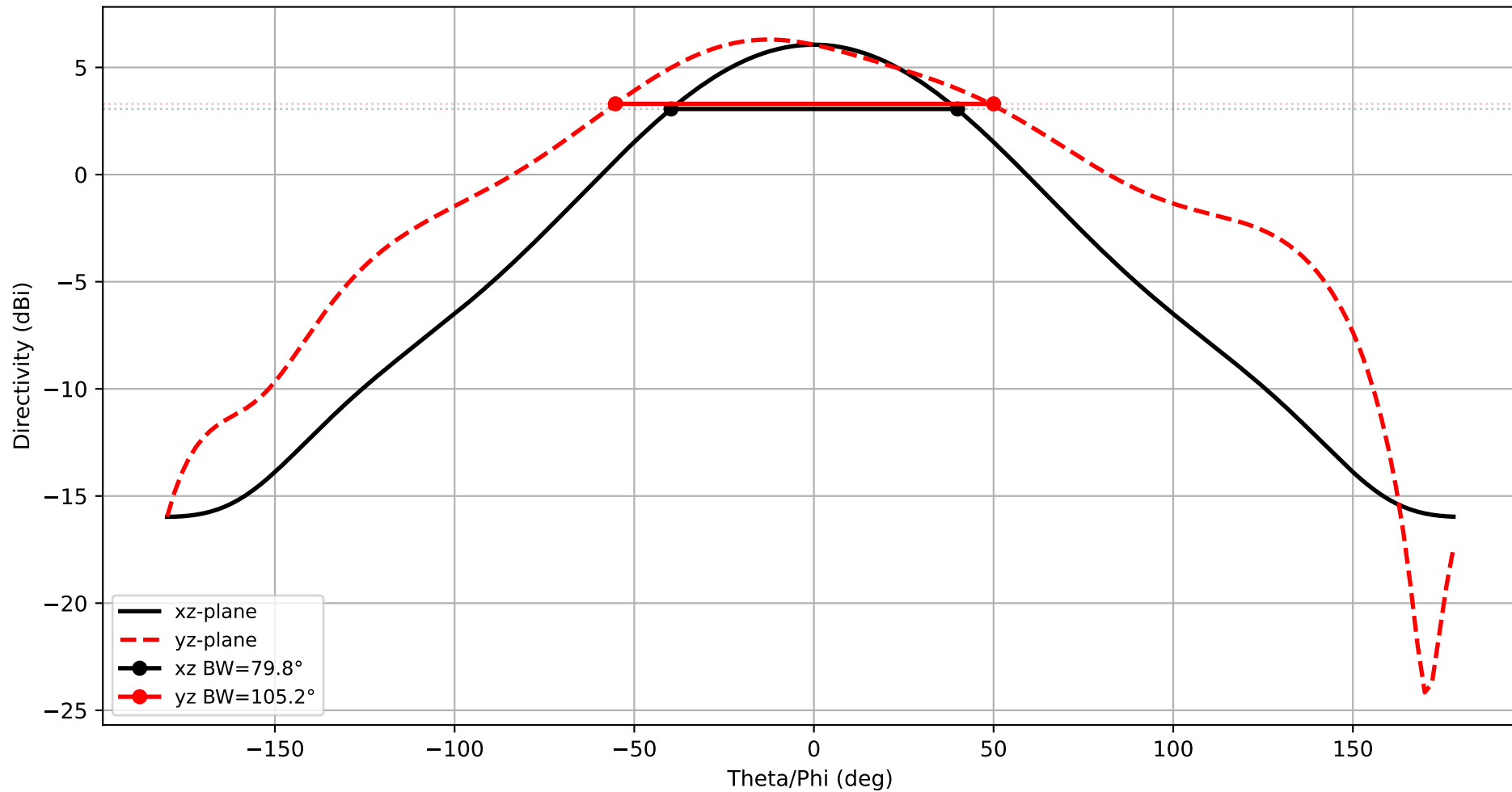
$f = 5.442 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 6.30 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 6.30 \text{ dB}$



Frequency: 5.442 GHz — Directivity (linear). Dmax: 4.267
0°



Frequency: 5.442 GHz
xz-plane: HPBW=79.8°
yz-plane: HPBW=105.2°



3D Directivity Pattern
 $f = 5.442 \text{ GHz}$, $D_{\text{max}} = 6.29 \text{ dBi}$

