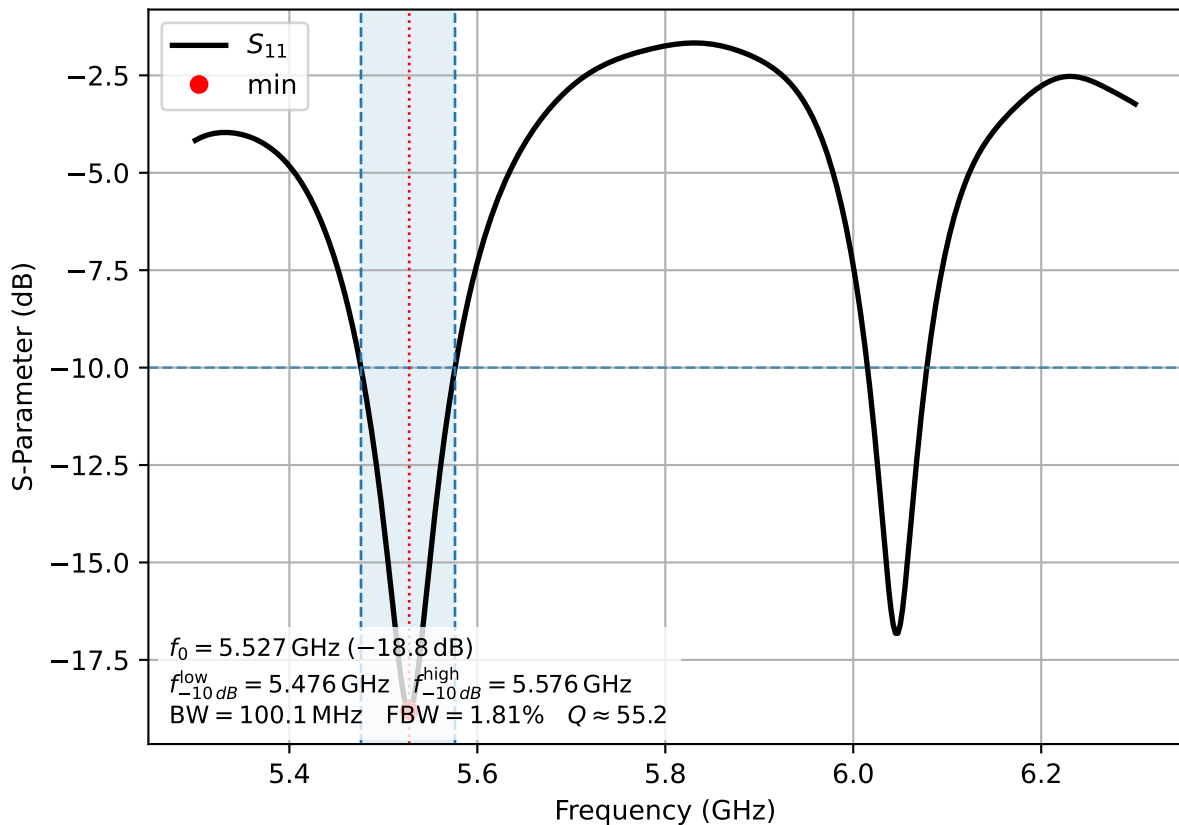


Reflection Coefficient S_{11}

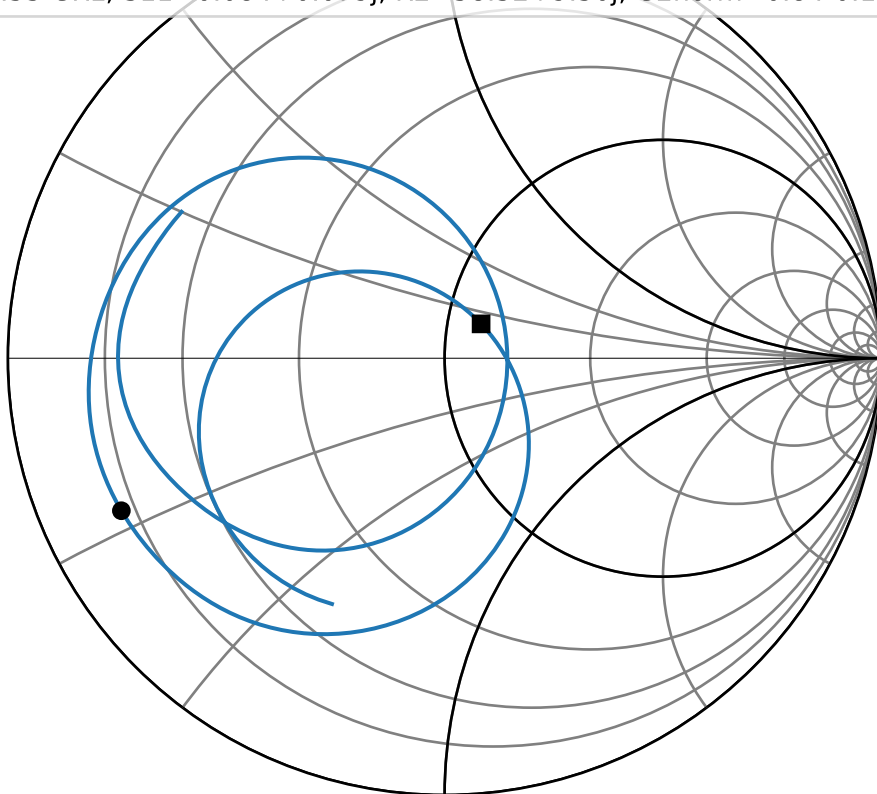


Smith Chart

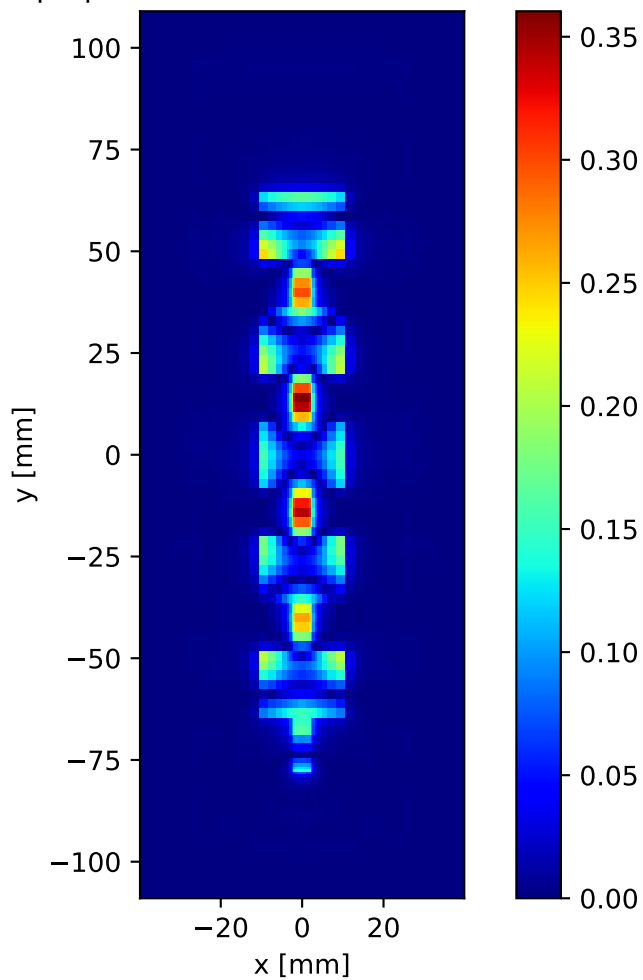
— S11 (Patch W=19.00 mm, L=14.10 mm)

● 5.80 GHz, $S_{11} = -0.740 - 0.349j$, $R = 5.25 - 11.08j$, $G_{\text{norm}} = 1.74 + 3.68j$

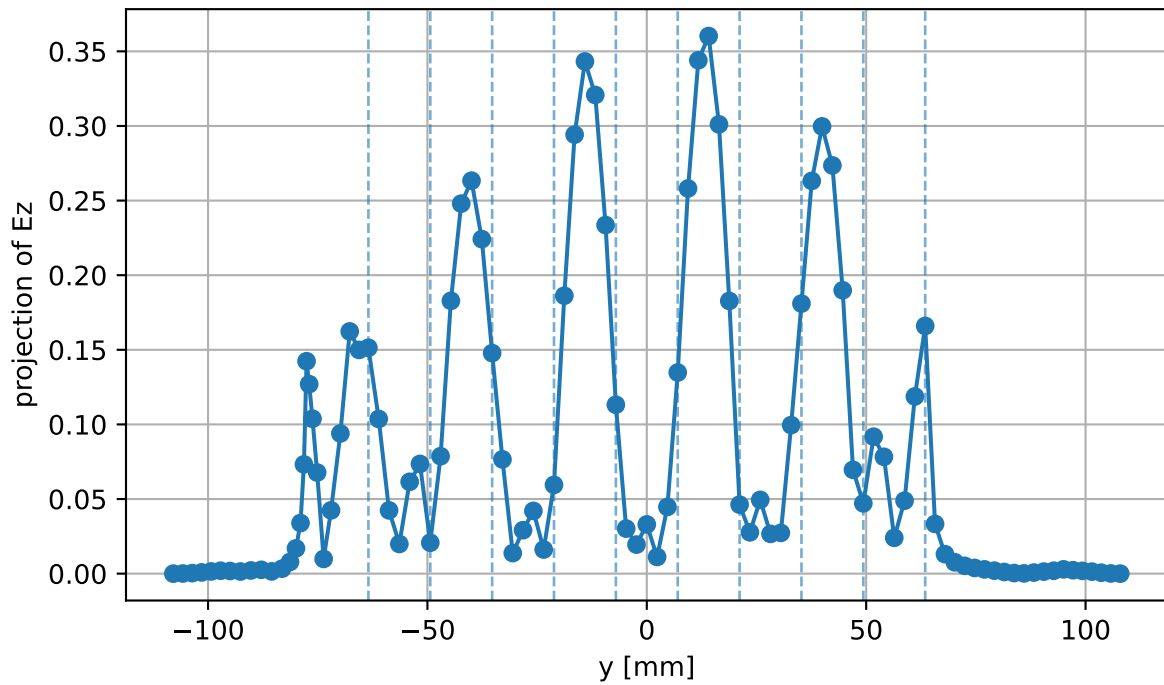
■ 5.53 GHz, $S_{11} = 0.084 + 0.079j$, $R_2 = 58.32 + 9.30j$, $G_{2\text{norm}} = 0.84 - 0.13j$



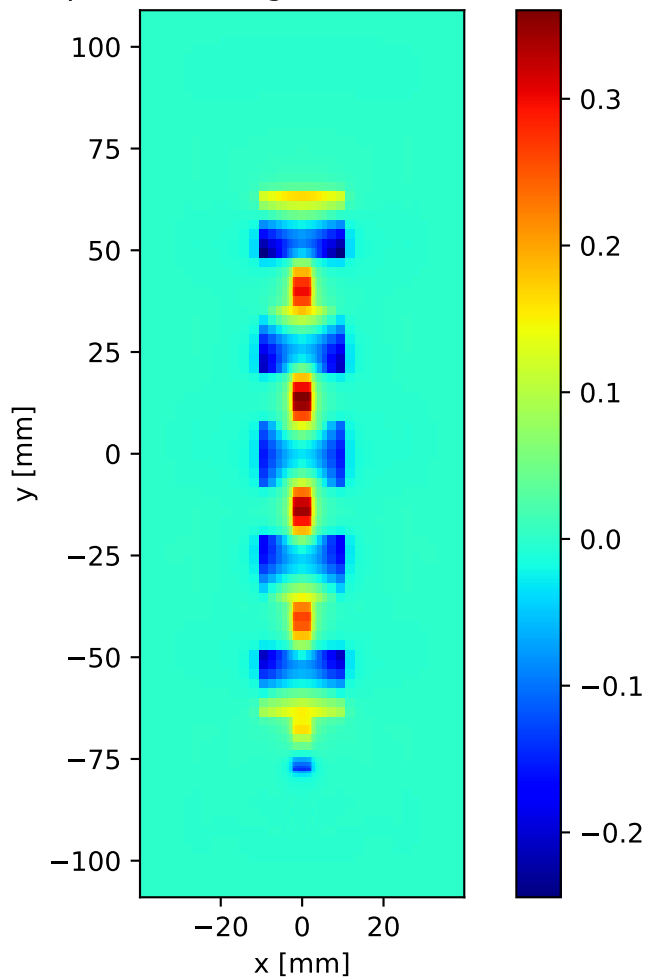
$|E_z|$ slice at $z = 0.76$ mm (idx 13)



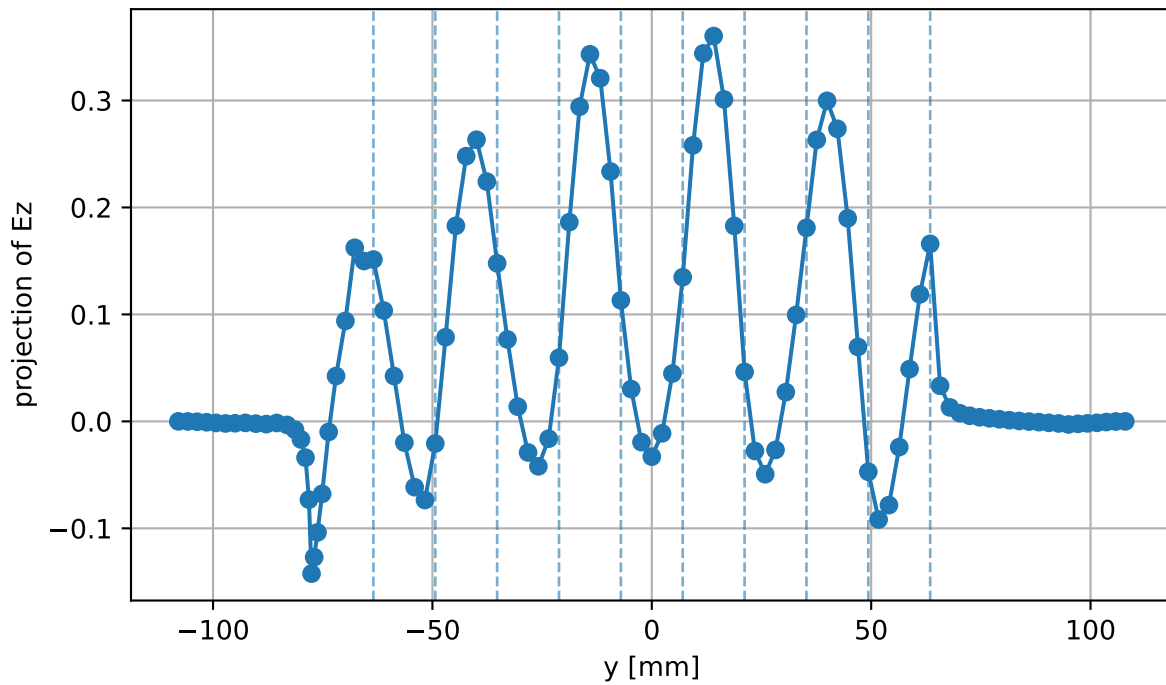
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx x=22, z=13)



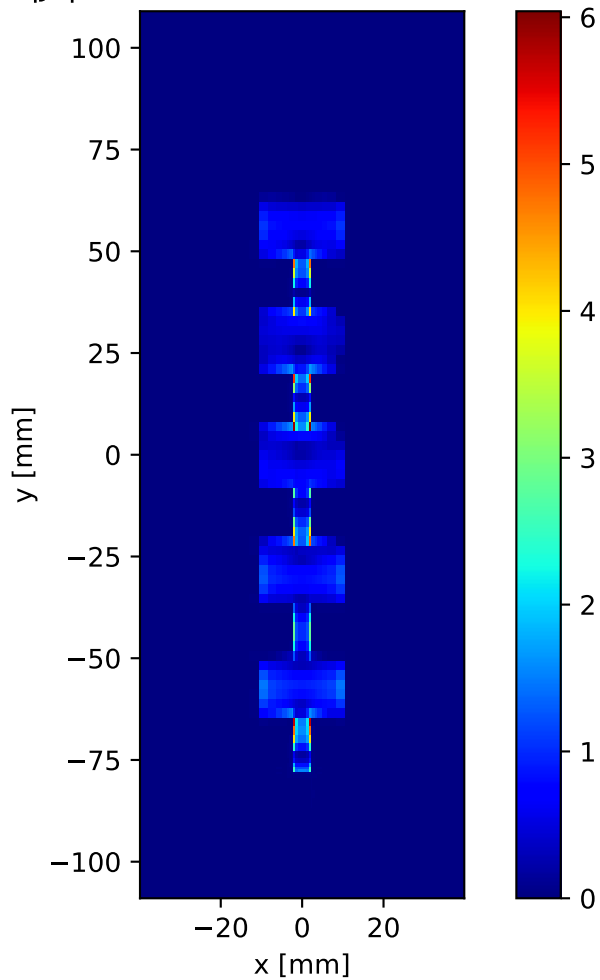
Ez snapshot (dphi=-0.25deg) slice at $z = 0.76$ mm (idx 13)



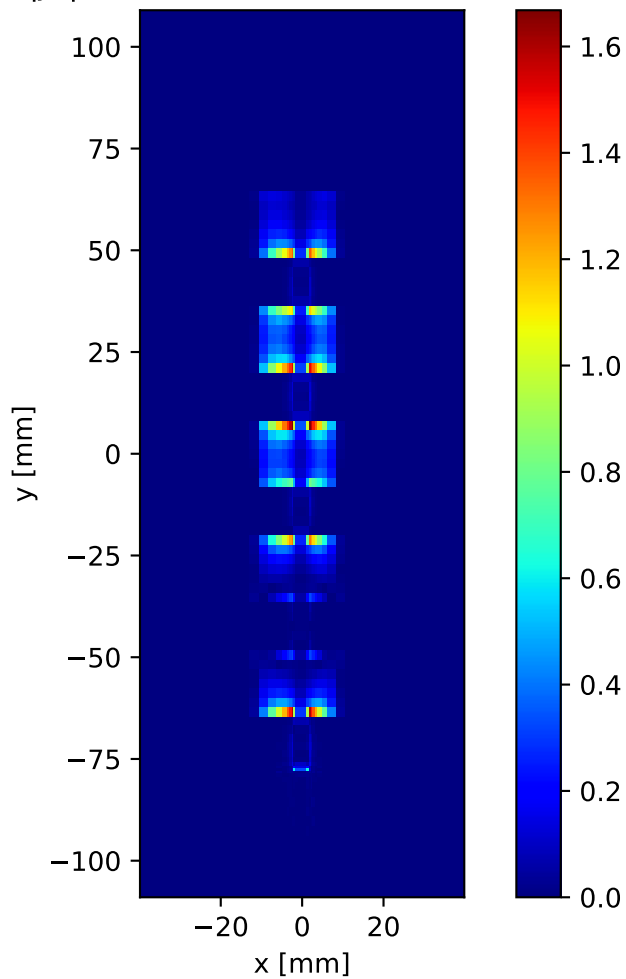
Ez snapshot (dphi=-0.25deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=22, z=13)



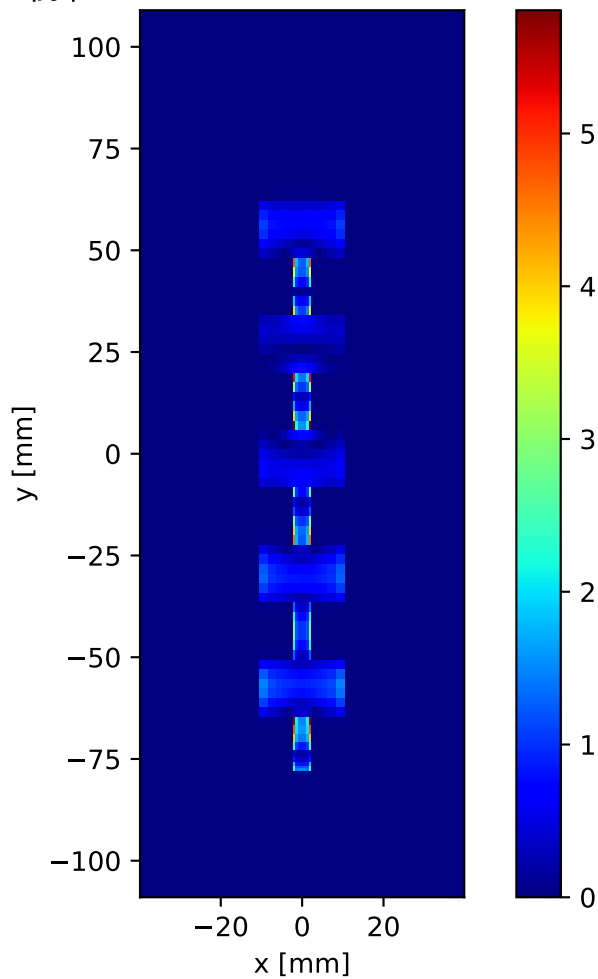
$|J_s|$ slice at $z = 1.524$ mm (idx 15)



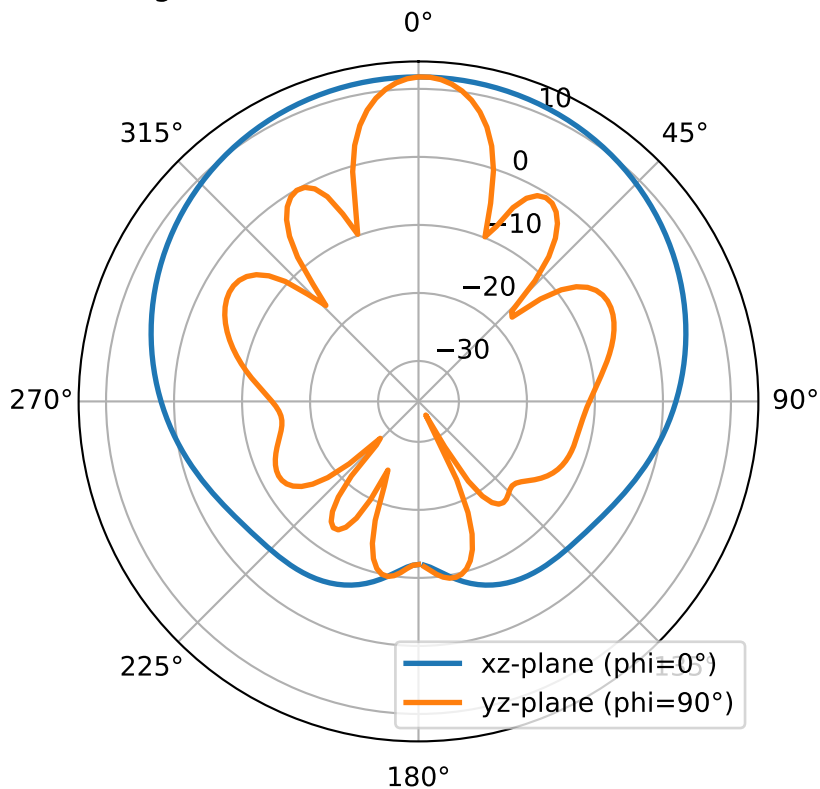
$|J_x|$ slice at $z = 1.524$ mm (idx 15)



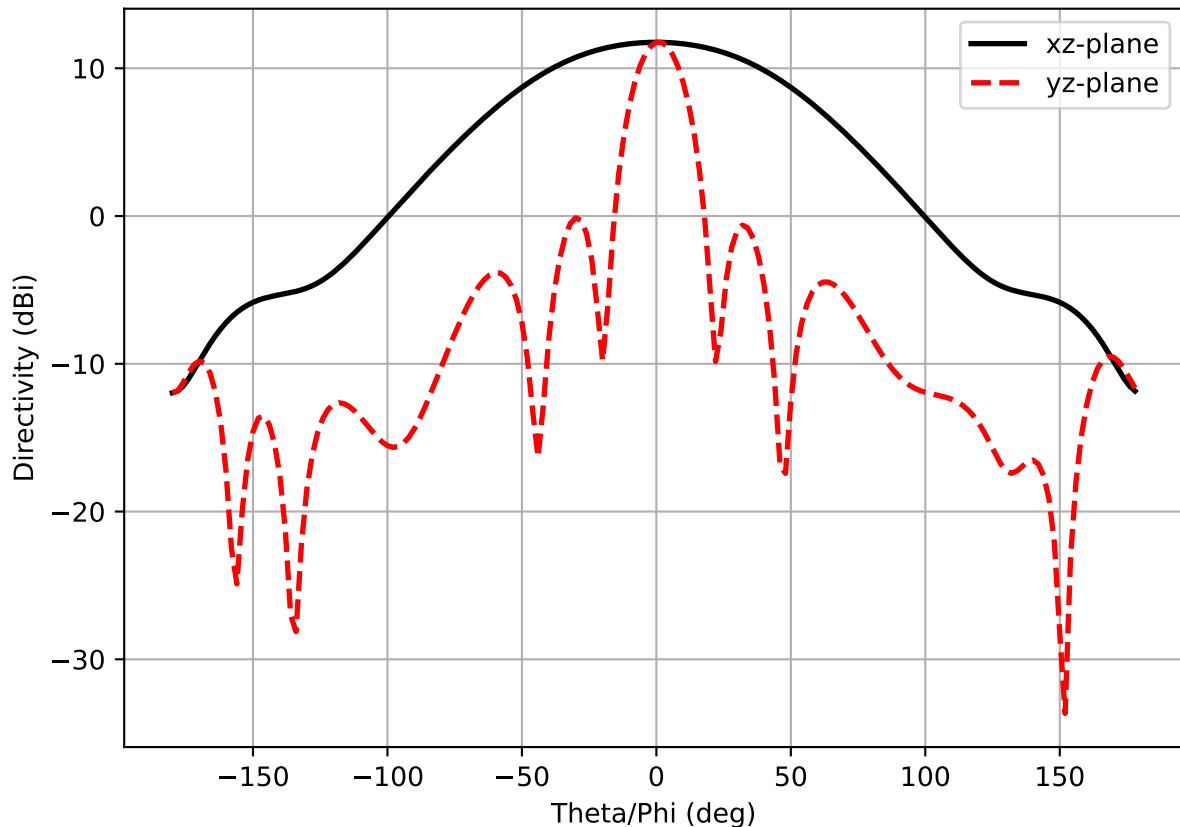
$|j_y|$ slice at $z = 1.524$ mm (idx 15)



$f = 5.800 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 11.76 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 11.76 \text{ dB}$



Frequency: 5.800 GHz



3D Directivity Pattern
 $f = 5.800$ GHz, $D_{\max} = 11.76$ dBi

