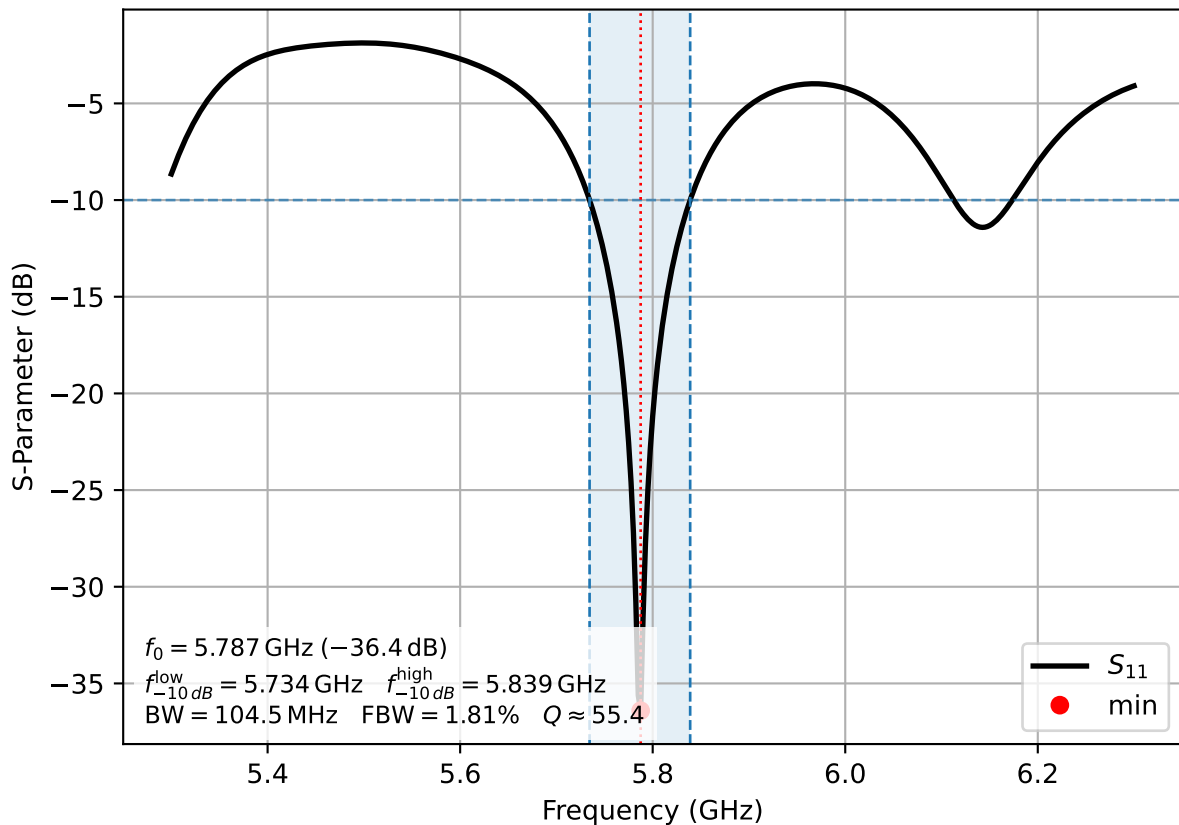


Reflection Coefficient S_{11}

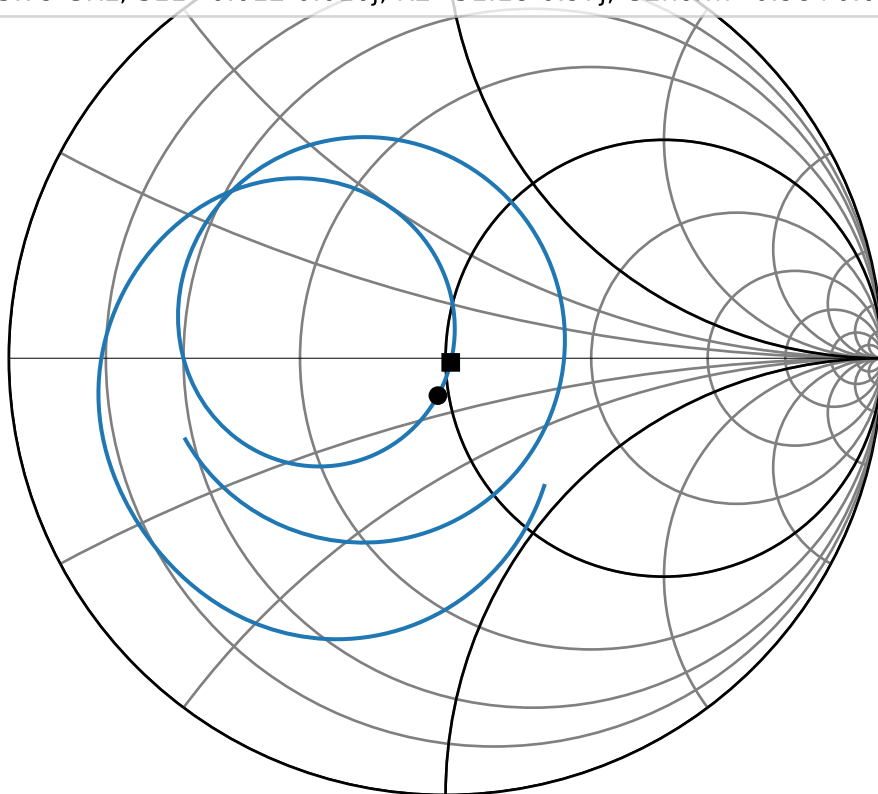


Smith Chart

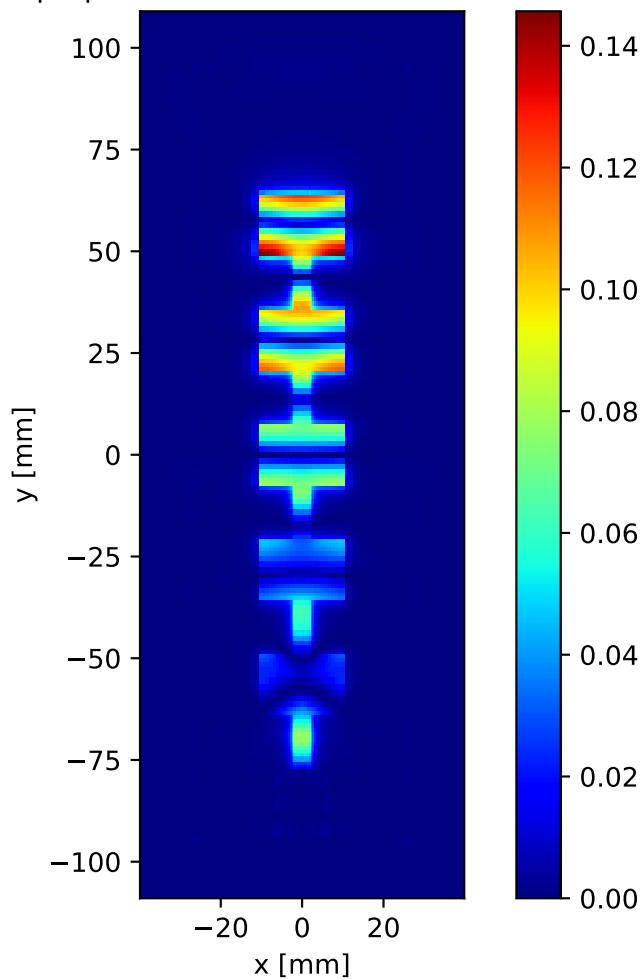
— S11 (Patch W=19.00 mm, L=14.10 mm)

● 5.80 GHz, $S_{11} = -0.018 - 0.086j$, $R = 47.58 - 8.21j$, $G_{\text{norm}} = 1.02 + 0.18j$

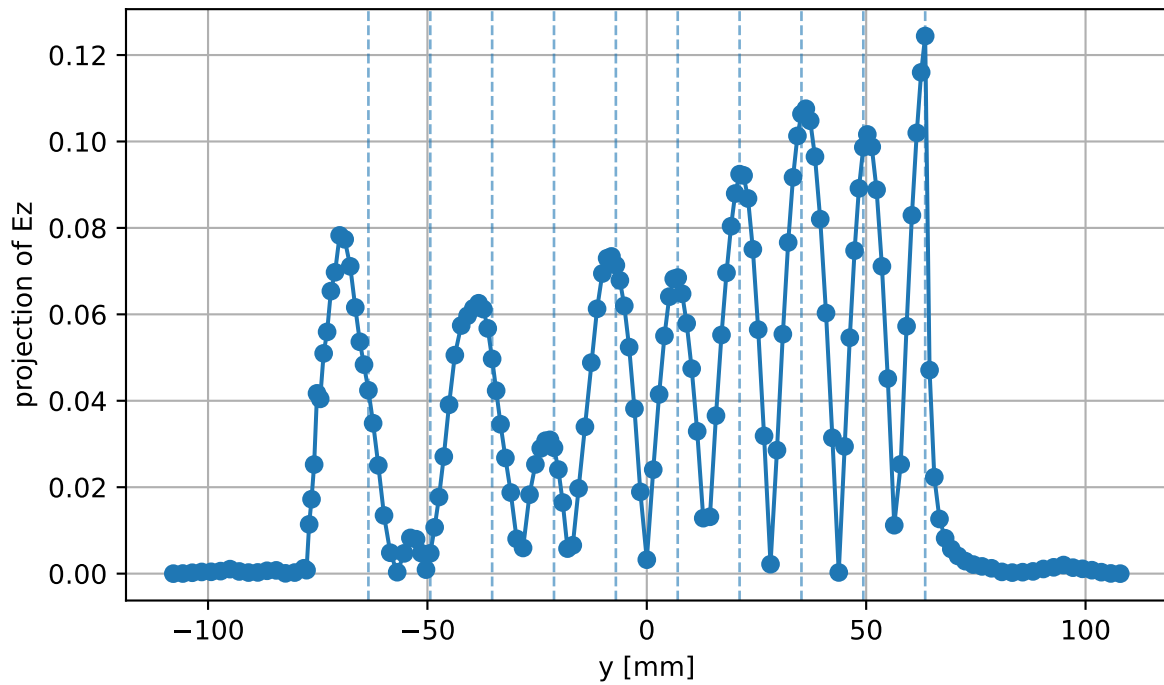
■ 5.79 GHz, $S_{11} = 0.012 - 0.010j$, $R_2 = 51.18 - 0.97j$, $G_{2\text{norm}} = 0.98 + 0.02j$



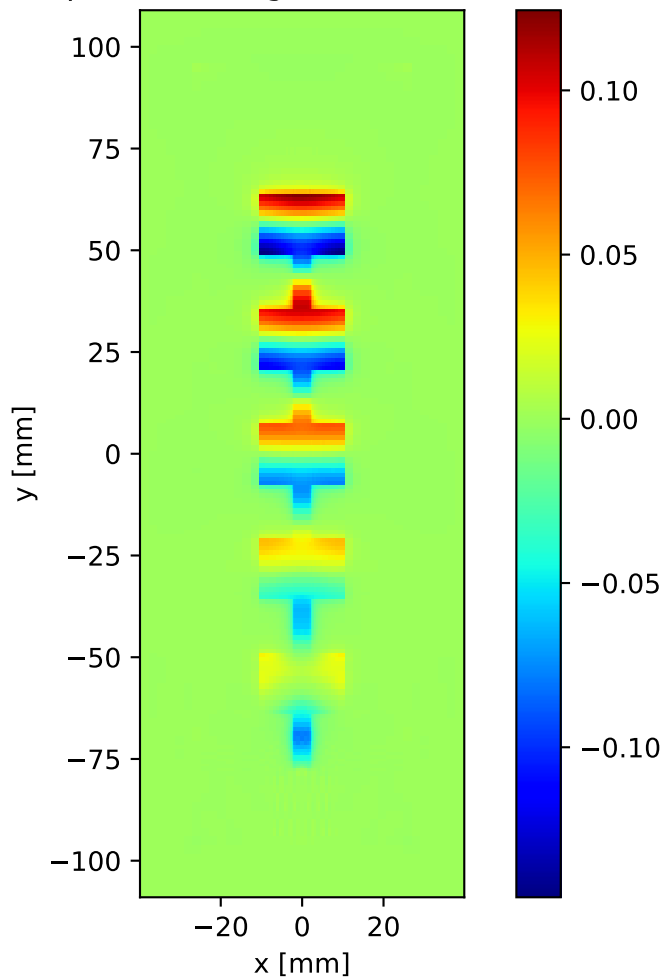
$|E_z|$ slice at $z = 0.76$ mm (idx 20)



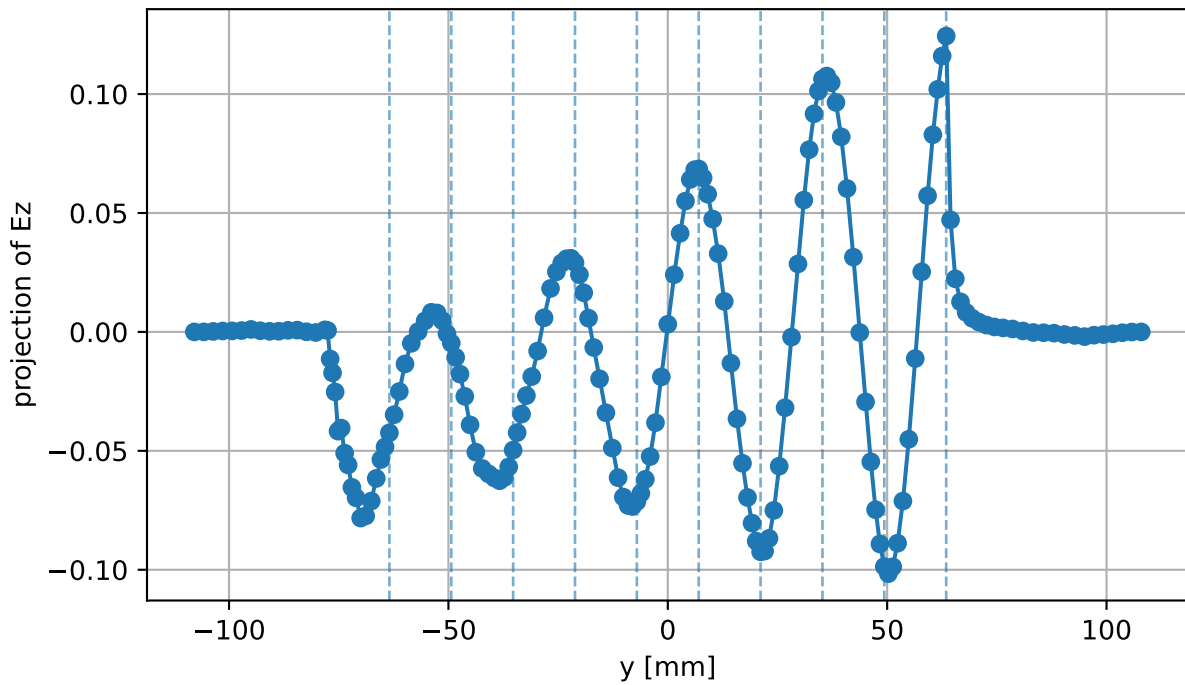
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=29$, $z=20$)



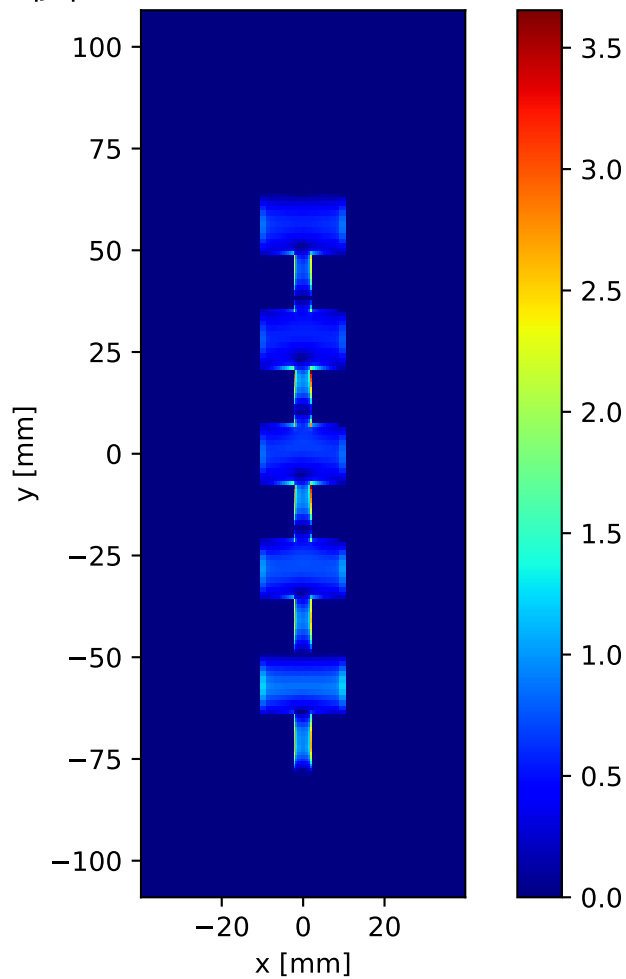
Ez snapshot (dphi=-0.19deg) slice at $z = 0.76$ mm (idx 20)



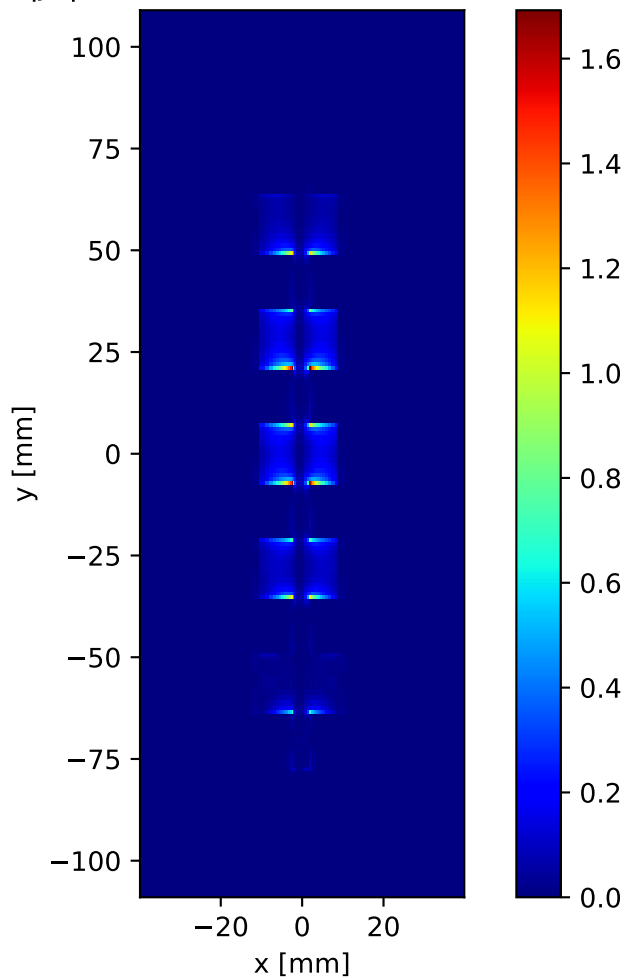
Ez snapshot (dphi=-0.19deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=29, z=20)



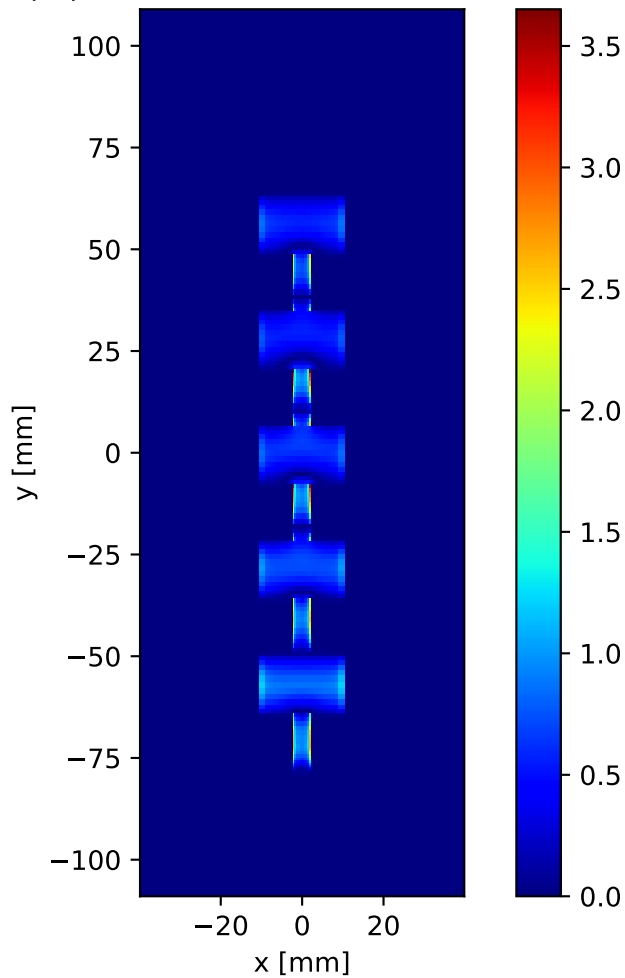
$|J_s|$ slice at $z = 1.524$ mm (idx 22)



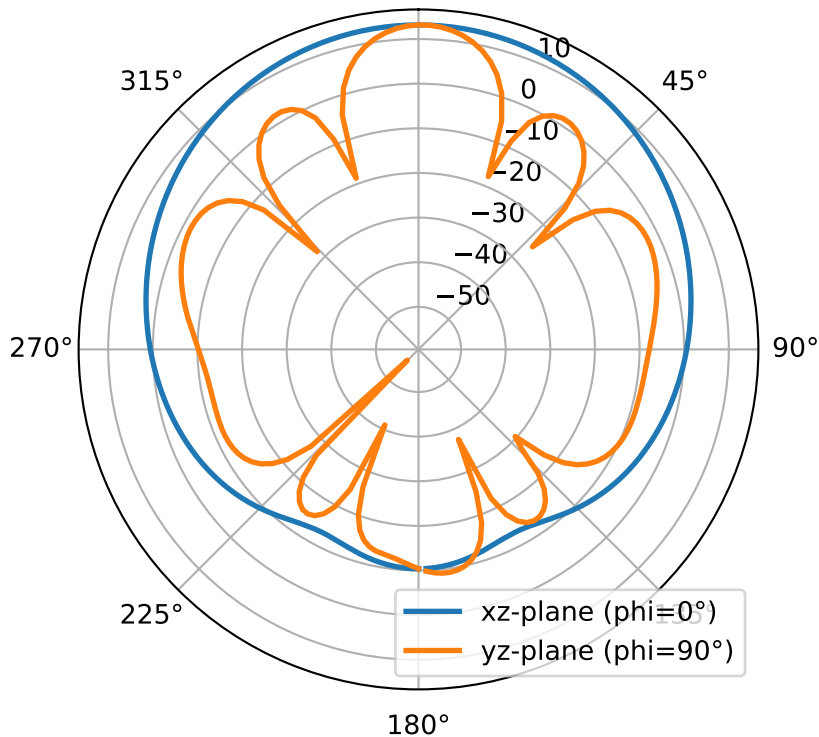
$|J_x|$ slice at $z = 1.524$ mm (idx 22)



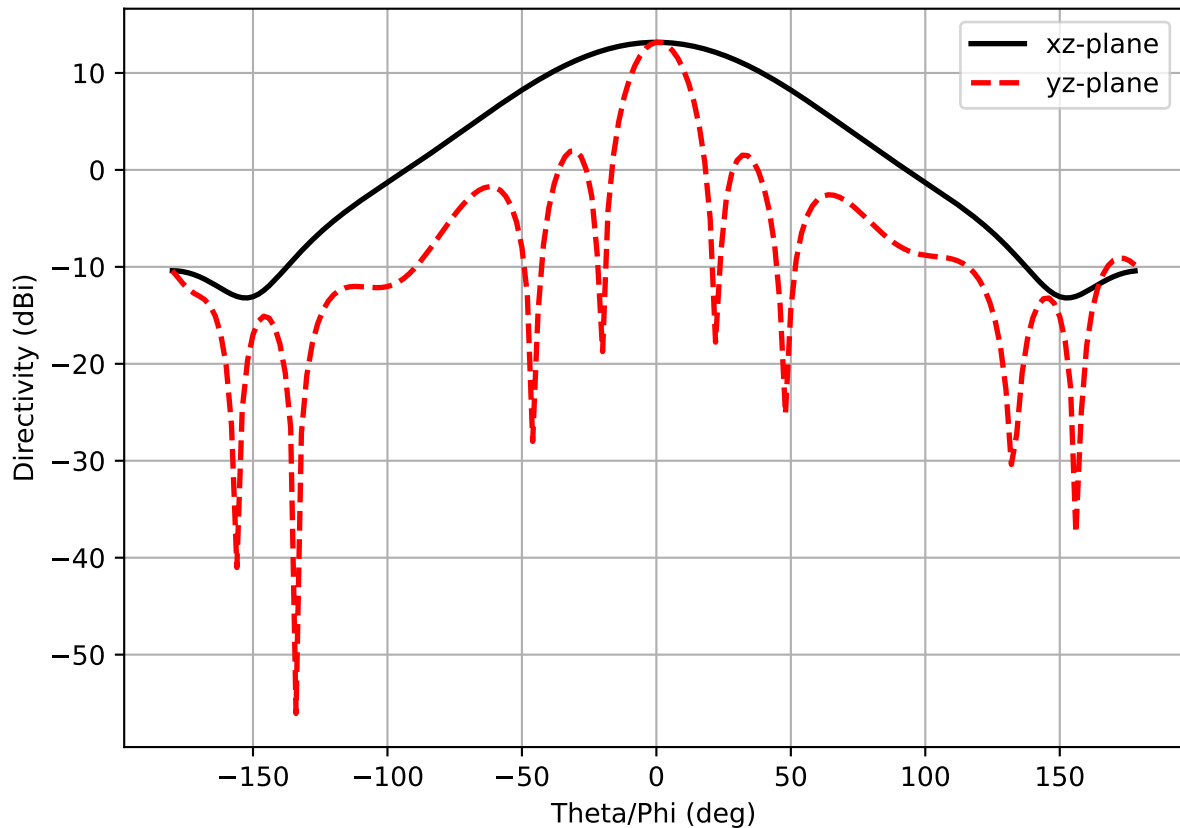
$|j_y|$ slice at $z = 1.524$ mm (idx 22)



$f = 5.800 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 13.17 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 13.17 \text{ dB}$



Frequency: 5.800 GHz



3D Directivity Pattern
 $f = 5.800 \text{ GHz}$, $D_{\text{max}} = 13.17 \text{ dBi}$

