

7.3 - The Wilkinson Power Divider

Reading Assignment: pp. 318-323

The Wilkinson power divider is the most **popular** power divider designs.

It is very similar to a lossless 3dB divider, but has one **additional** component!

HO: THE WILKINSON POWER DIVIDER

Q: *I don't see how the Wilkinson power divider design provides the scattering matrix you claim. Is there any way to **analyze** this structure to verify its performance?*

A: Yes! We simply need to apply an **odd/even mode analysis**.

HO: WILKINSON DIVIDER EVEN/ODD MODE ANALYSIS