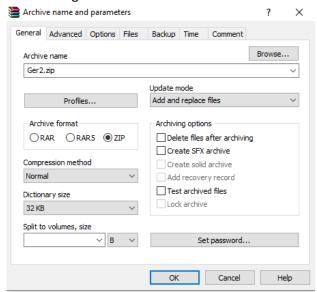
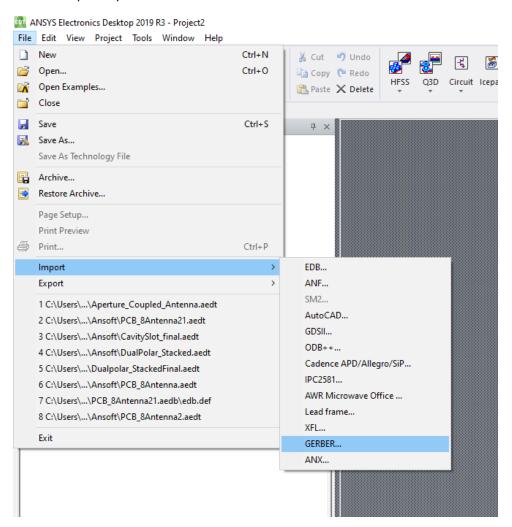
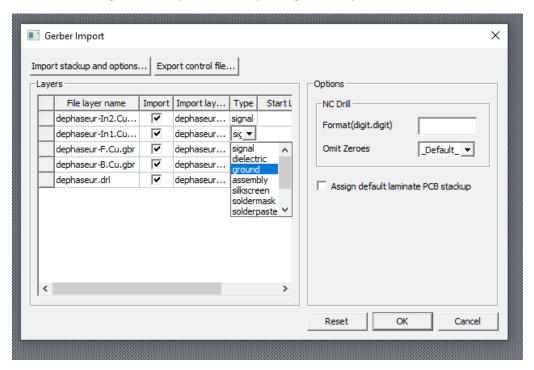
1. We will need, all copper layouts plus drill file with Gerber format. A zip file is required to contain all gerber files:



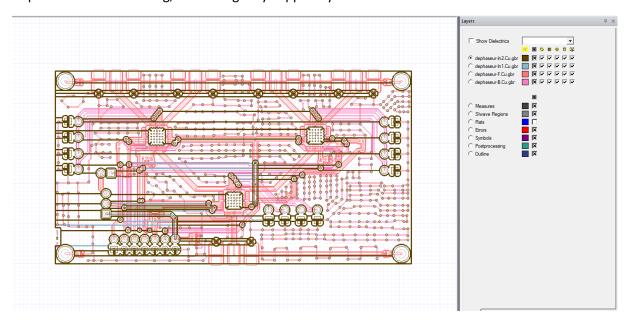
2. Import Zip of Gerbers



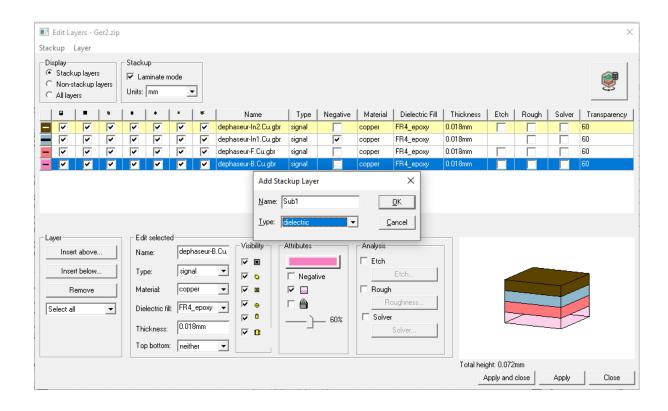
3. Choosing Ground layer. Power layer might be required in some cases:

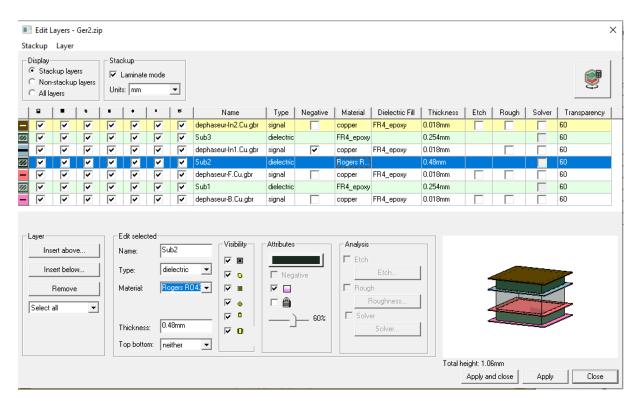


Imported PCB as following, containing only copper layers

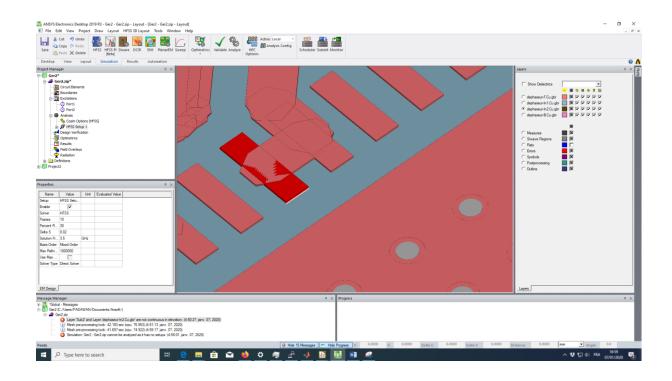


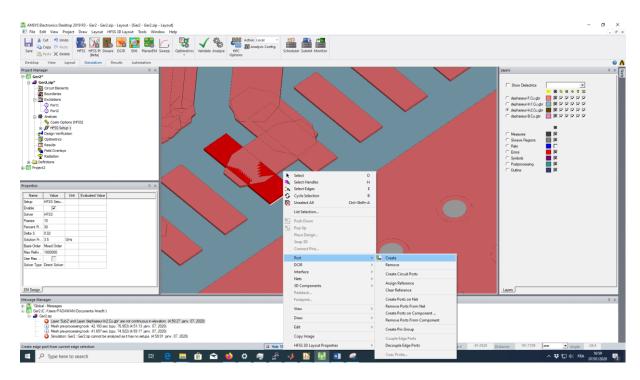
4. Add Dielectric layers and assign layers' width

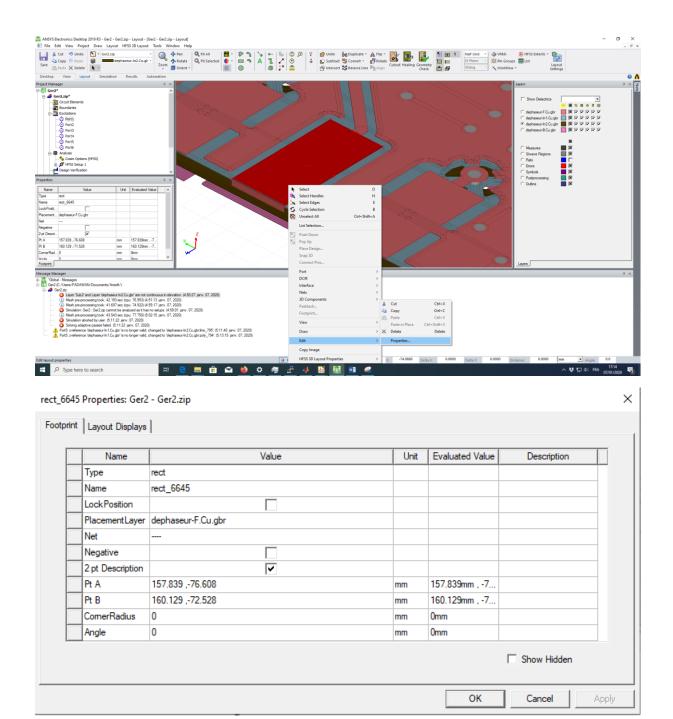




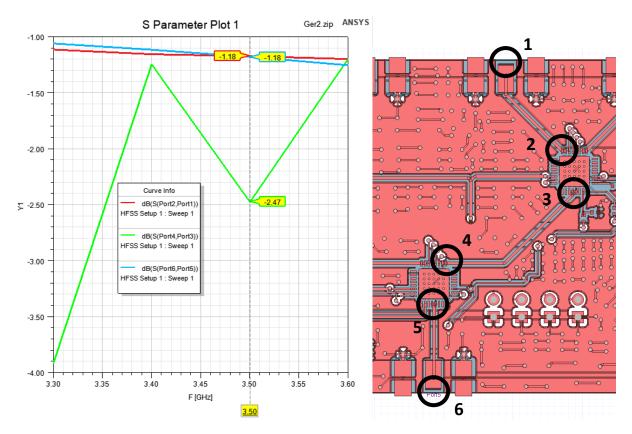
5. Assign EDGE ports and modify geometry







- 6. Analyze the design:
- Transmission



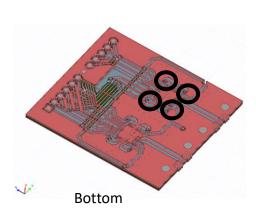
For every phase-shifter passed, there is 7.1dB loss. So, For this design, from port 6 to port 1:

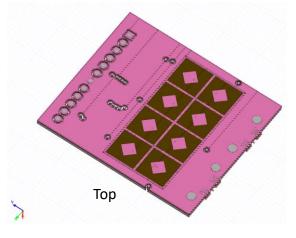
With 4 parallel ports:

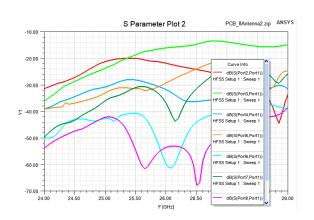
 $Loss_{In-Out} = Loss_{TOT} + 6dB = 13.1dB @3.5GHz$ 

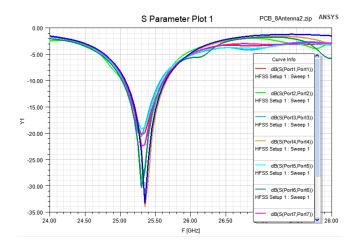
♣ Is the TM lines' width optimal?

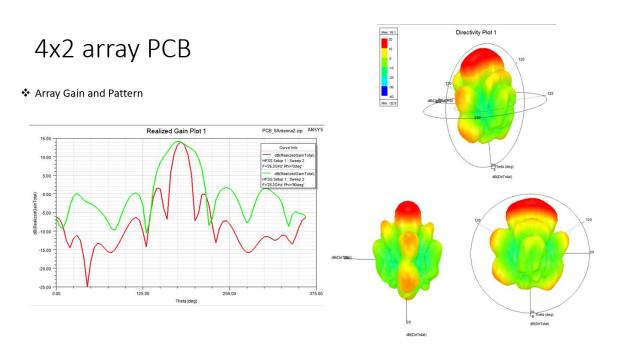
## Radiation











♣ Is frequency band large enough?