

## E157 Lecture 18 Day Plan

See 16 and 17 – design spec roundup and antenna research and Xrad LC model

Far field for two antennas – How far apart do a  $10\text{Grad/s } \lambda/2$  dipole and a  $10\text{Grad/s } \lambda/2$  patch need to be so that we don't see near field effects in our link?

Look at these datasheets – what type of antenna? What is gain?

- <http://www.schwarzbeck.de/en/antennas/broadband-horn-antennas/double-ridged-horn-antenna/408-bbha-9120-lf-double-ridged-broadband-horn-antenna.html>
- <https://cdn.taoglas.com/datasheets/AP.25F.07.0078A.pdf>
- [https://www.l-com.com/Images/Downloadables/Datasheets/ds\\_HG2402PU-UFL.pdf](https://www.l-com.com/Images/Downloadables/Datasheets/ds_HG2402PU-UFL.pdf)
- [https://www.l-com.com/Images/Downloadables/Manuals/M\\_RE1208P-SM.pdf](https://www.l-com.com/Images/Downloadables/Manuals/M_RE1208P-SM.pdf)

Discuss phased array beamforming and radiation patterns

Check-in, office hours