

E157 Lecture 24 Day Plan

Any questions before quiz

Quiz + Team Quiz + Talk through solution

Repeat: Draw spectra for SSB mixer below

Repeat: What LO frequencies make 20MHz IF from 40MHz RF? – 20MHz and 60MHz: LO can be either high side injection or low side injection

Repeat: What's a tracking generator for? Relate to S-parameters – Makes a scalar VNA

Is this constellation AM, PM or both?

Modulation efficiency

Error Vector Magnitude, rotated constellations w/ IQ imbalance

OOK and the need for protocols

Check-in, office hours

https://commons.wikimedia.org/wiki/File:SSB_and_Image_Rejection_Mixer.svg

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