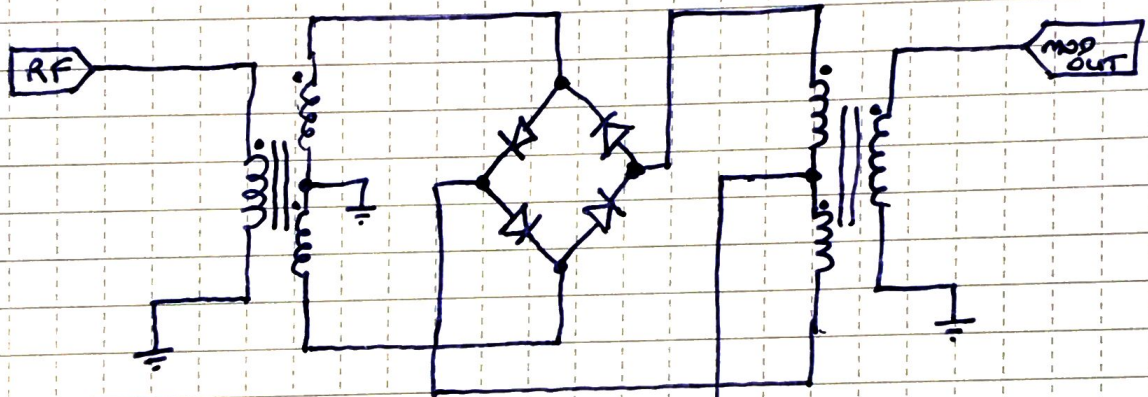


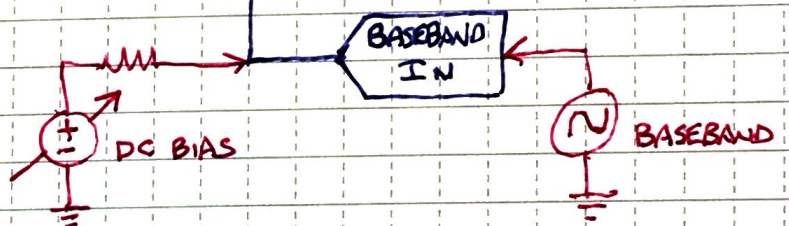
DOUBLE SIDEBAND SUPPRESSED CARRIER (DSB-SC)  
= AND =  
AMPLITUDE MODULATION (AM) FROM A

## DIODE RING DOUBLE-BALANCED MIXER



### REFERENCE

- #167: BASICS OF DIODE RING MIXER
- #223: BASICS OF GILBERT CELL
- #224: DSB-SC & AM w/ GILBERT CELL



### TWO KEYS FOR AMPLITUDE MODULATION

- ① KEEP BASEBAND SIGNAL LEVELS LOW  
(100-200 mV OR SO)
- ② ADJUST DC BIAS AS NEEDED TO  
KEEP DIODES FROM SWITCHING