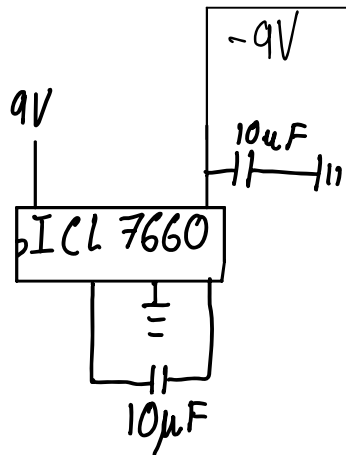
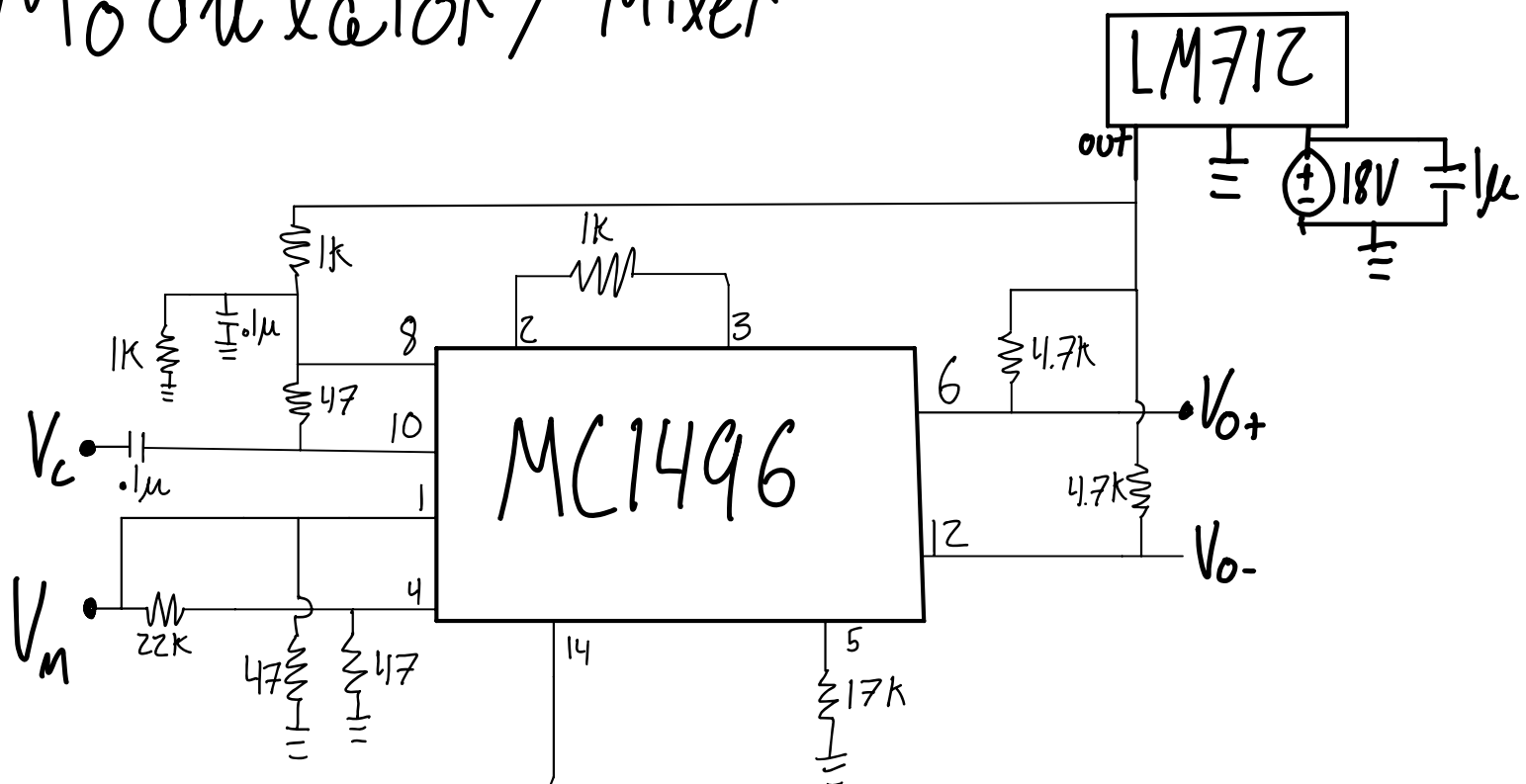


# Modulator / Mixer

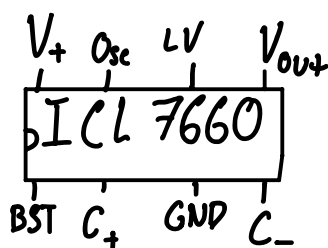
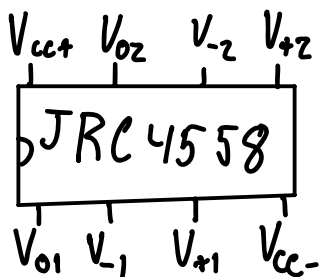


$V_m$  - Modulating  
Signal  
 $V_o$  - Carrier  
signal  
 $V_o$  - Modulated  
signal

\* Bias resistor (5) is larger  
(~4x) than datasheet  
recommends, I found better  
modulation fidelity with  
lower bias current at  
carrier  $f$  of 1MHz

## Transmitter Amplifier

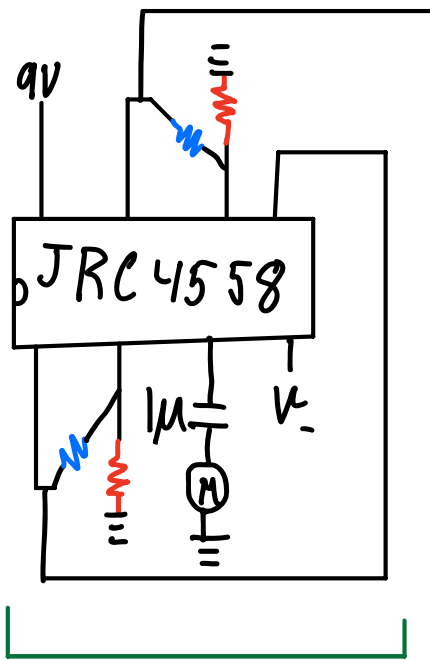
Cascading Op Amp w/ Common emitter Amplifier



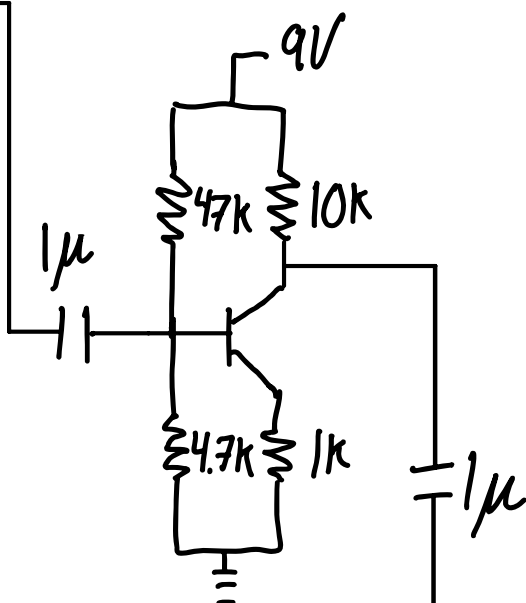
5.6k

22k

M  
Modulated  
Signal

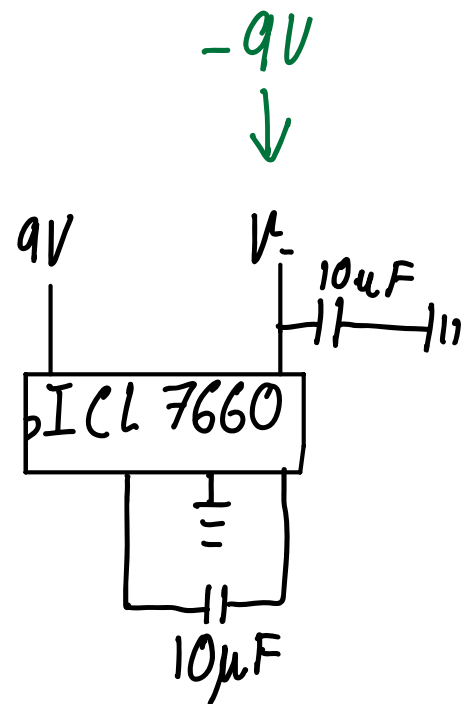


27dB



18dB

To transmission  
Antenna



Used to give  
Op-amp Negative  
V supply