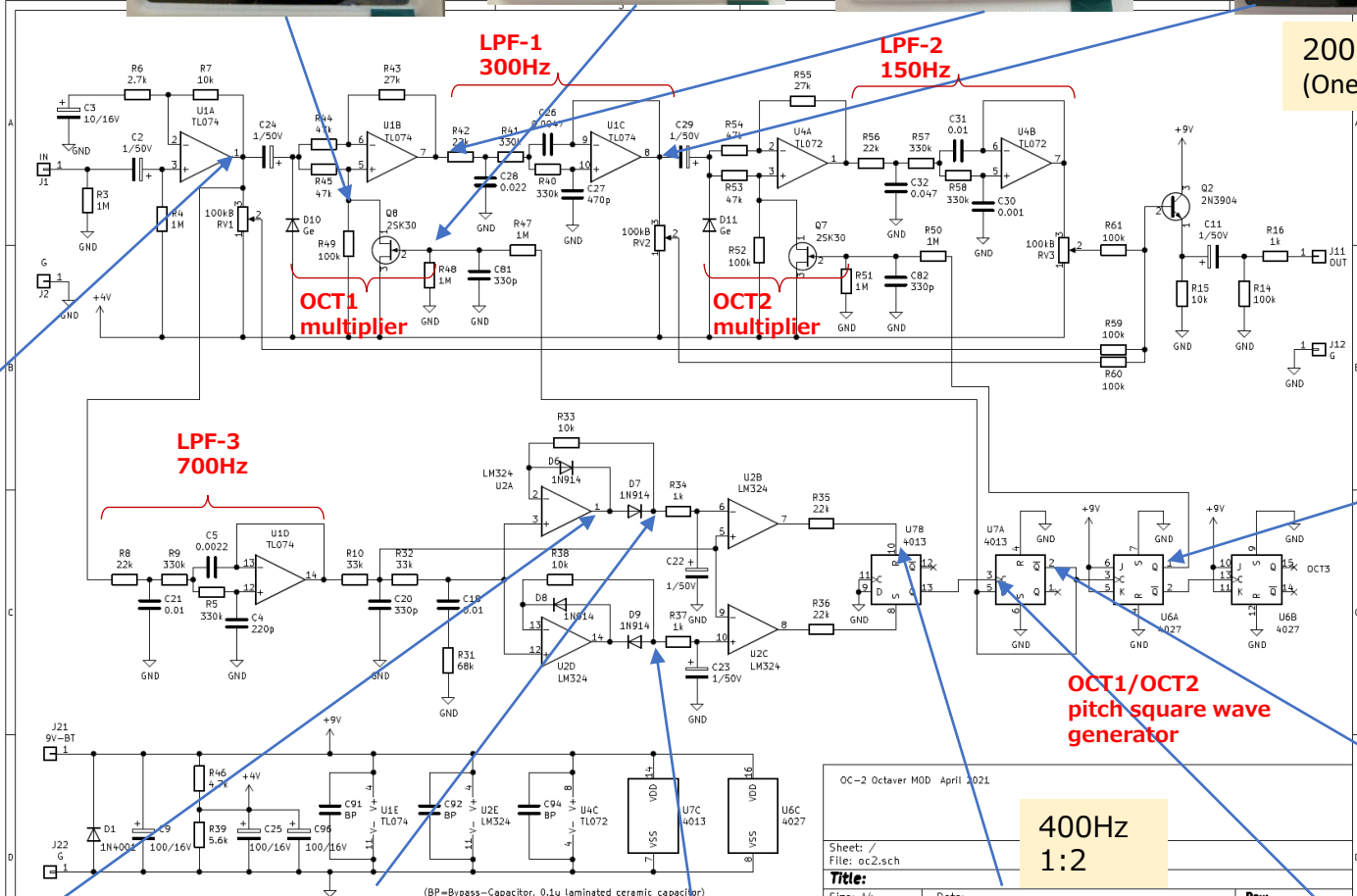
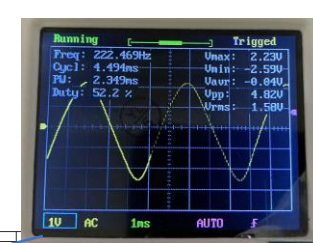
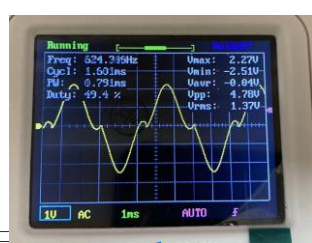
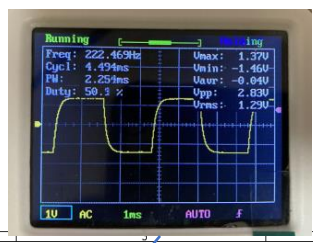


LPF-1
[3rd order Sallen-Key LPF]
fc1=340Hz fc2=318Hz

LPF-2
[3rd order Sallen-Key LPF]
fc1=159Hz fc2=149Hz

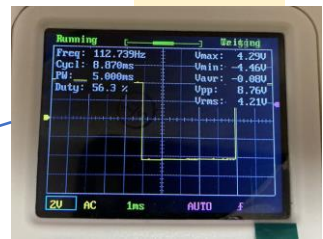
400Hz
(IN)

LPF-3
[3rd order Sallen-Key LPF]
fc1=750Hz fc2=680Hz



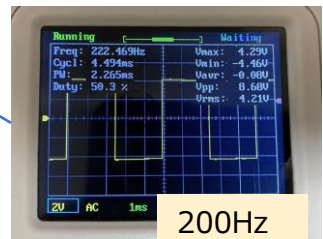
200Hz
(One octave lower OUT)

100Hz
1:1

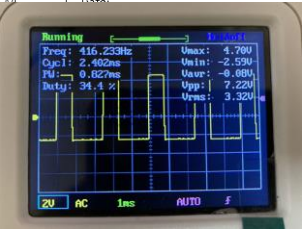
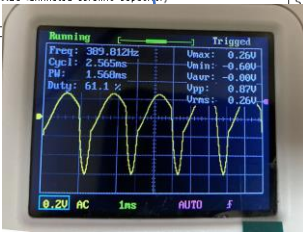
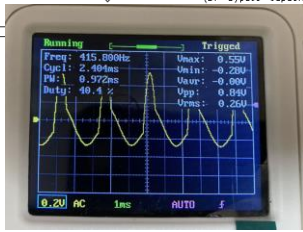
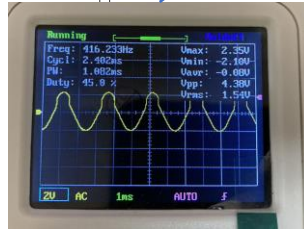


OCT1/OCT2
pitch square wave
generator

400Hz
1:2



200Hz
1:1

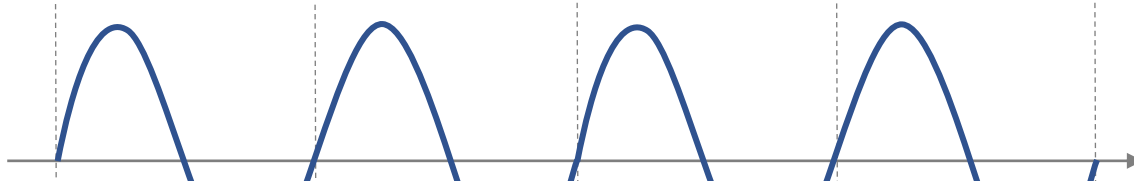


400Hz
1:1

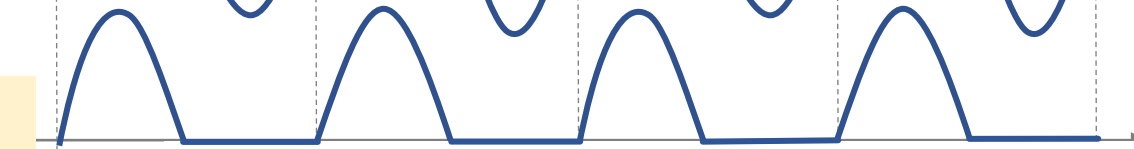
OC-2 Octaver MOD April 2021
Sheet: /
File: oc2.sch
Title:
Size: 11
Date:
Rev:

How to create a signal one octave lower

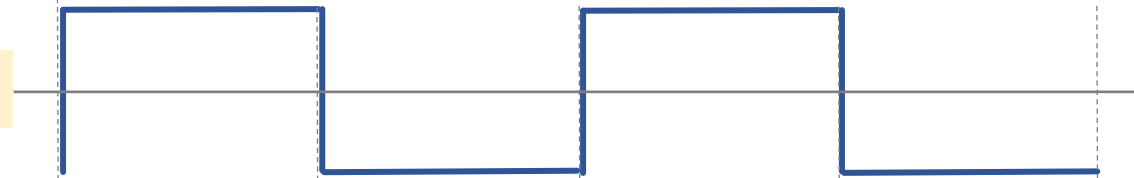
1) 400Hz input sine wave



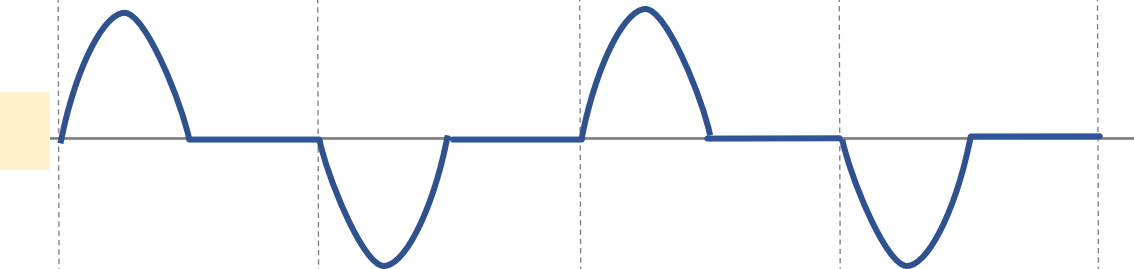
2) After passing germanium diode clipper (half-wave rectification)



3) OCT1 square wave



4) After multiplying 2) by 3)



5) After passing LPF -> one octave lower sine wave

