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· Input voltage - 0.2 to 0.5 volt, That is peak to peak voltage.

NE555 Set as astable Mode for 100 kHz fregn.

C= Inf R, = 2.2 k-2 R2= 5k-2

Because T= 0.7 (R1+2R2)XC Need P= 100kH2 .. T= 10-5 sec

Flot Intigrator

Gair = 1 j2+f, R. Cf Gain=1 hence,

R. OF = 1.59 × 10-59 R1 = 10K-2

CF= 1.2nf.

o Flor MOSFIET Need

For that -> Vgs = Vgate - Vsource

Flor high side N-MOSFET

Vsource = output = 0 to 12 volt

Fibe that high side N-MOSFET Need to Vgs Voltage highes than 12 Wolf.

That's why we added Bootstoop Ciscuit.