Calculation

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Date)

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

· NE555 set as astable Mode for 100 kHz fregr.

C = 1nf $R_1 = 2.2 k \cdot 2$ $R_2 = 5 k \cdot 2$

· Because T= 0.7 (R1+2R2)xC Need P= (OOKH2 ! T= 10-5 sec

o Flor Intigrator

Gain = 1 $j_{2\pi}f_{,R,cf}$ $j_{2\pi}f_{,R,cf}$ Gain = 1

hence, $k_{1}Cf = 1.59 \times 10^{-5} \text{ s}$ $R_{1} = 10k_{,}$ $CP = 1.2nf_{,}$

o Floe MOSFIET Need.

· Vgs > Vth Need.

Foe that → Vgs = Vgate - Vsource

Fibe high side N-MOSFIET

Voouvece = Output = 0 to 12 volt

Fibe that high side N-MOSFET Need to Vgs Voltage highes than 12 Volt.
That's why we added Bootstoop Ciscuit.

	Date
1	Make gate Voltage Greater than 12v.
	Add Bootstoop.
	A service of sent aldelen in the economic
1	low pass filter-
	Floom = 100kHz But After law pass filter
	we get fc=30kHz , RL=852
	The state of
	then 1= Rz
	27 Pec+, 4 1 200 = T 100 100 100 100 100 100 100 100 100 1
	1= 62.64 set L\$ 67 let
	Q The training to the part of the same of
	5
_	$C = 1$ $(2\pi f)^2 R_1 = 2 \pi r d$
-	
	0 0 0 0 0
	C = 2.2 DF
	Superior of the superior of th
	Hence weget 5(Hatt) Output.
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7	- hand Tarke Light -
	somether shell field a literal
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