

Laboratory Notes

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Station 7

M1.

a,

Ue: 619mV

Ub: 1263mV

Uc: 7.42V

base-emitter collector emitter számolni!!

b,

208mv is the saturation value

c,

f[Hz]	50	100	200	500	1000	2000	5000	10000	20000	50000	100000
Uin[mV]	120	118	112	112	110	110	112	112	110	110	112
Uout[mv]	4800	6400	7200	7400	7400	7400	7400	7400	7200	6200	4800
A											
a[dB]											
phase	108	134	147	160	164	166	170	178	187	208	225

d,

based on extrapolated data from the previous exercise we expect around 76,88[Hz] for the lower and 82718.94[Hz] and at 5200mV

actual value lower: 57 Hz

actual value higher: 82.3 KHz

e,

modified high cut off freq: 12 KHz

f,

modified high cut off freq with cascade circuit: 271 KHz

2.

a,b

f	100 Hz	1kHz	10 kHz	100 kHz	1 MHz
Uin	1050	1010	1010	1010	1000
Uout	960	920	920	928	928
a					
phase	0	0.2	0	0	7.2

c,

$R = 37 \text{ k}\Omega$

d,

Initial amplification:

$U_{in} = 1100 \text{ mV}$

$U_{out} = 970 \text{ mV}$

$R_{in} = 151 \text{ k}\Omega$

Additional information:

D panel:

-T1 = 182 B

-T2 = 182 B

E panel:

-T1 = BC182A

3 Coaxials: RG58

1 T-piece