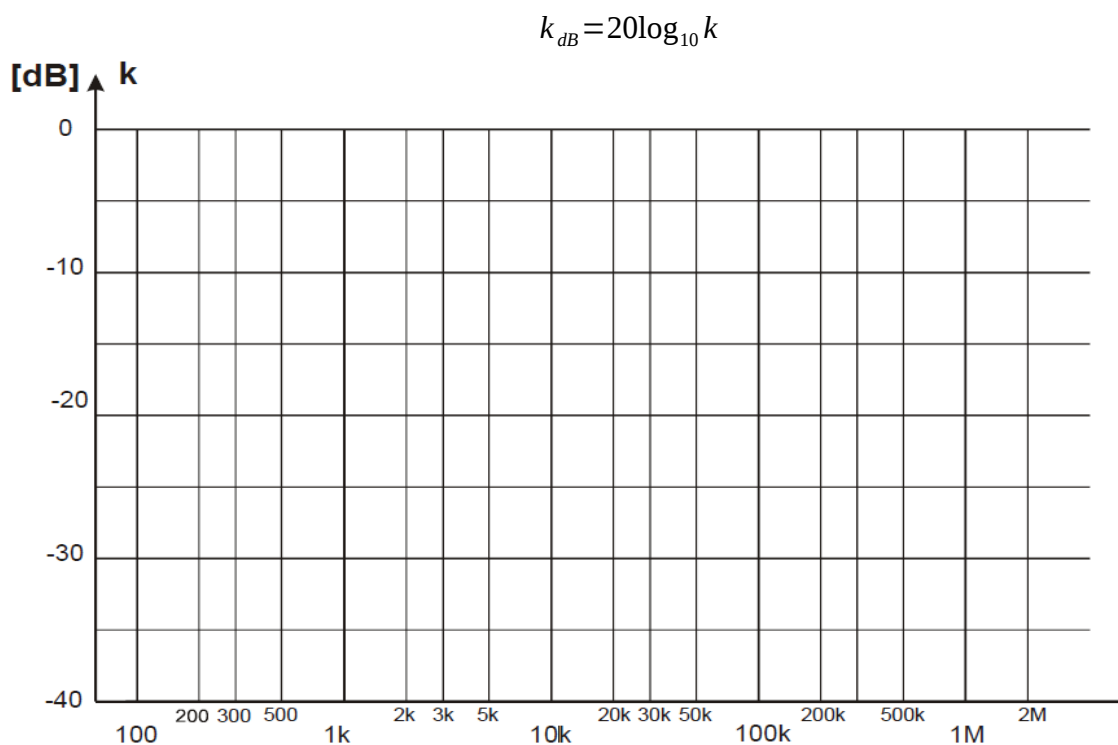


Lab. 3	Pasive circuits			Date:
name and surname			points	Supervisor

1. Amplitude characteristic of RC low-pass filter

Module M2 switch R1C filter

	frequency	number of division	sensitivity	U_{IN}	number. of division	sensitivity	U_{OUT}	$k = \frac{U_{OUT}}{U_{IN}}$	k_{dB}
	[Hz]	[div]	[V/div]	[V]	[div]	[V/div]	[V]	[V/V]	[db]
1	100Hz								
2	1kHz								
3	10kHz								
4	20kHz								
5	50kHz								
6	100kHz								
7	500kHz								
8	1Mz								



Upper cut-off frequency read from the graph:

f =

Calculated upper cut-off frequency

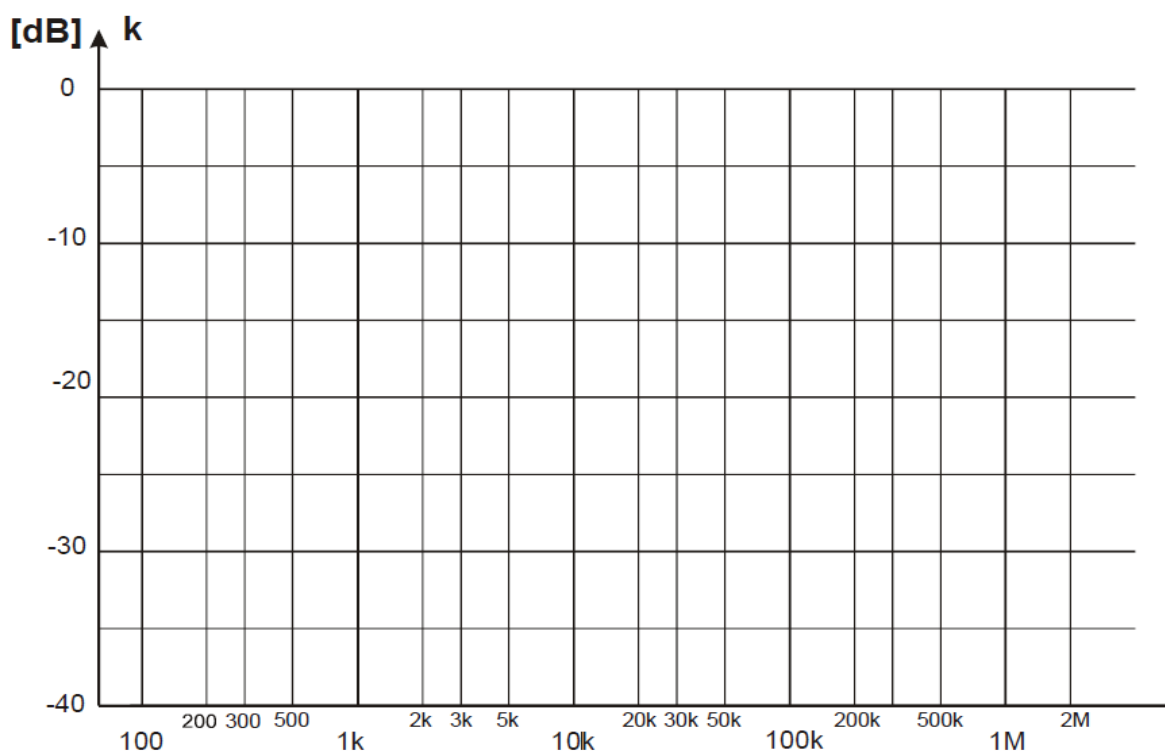
$$f_g = \frac{1}{2\pi RC} = \dots\dots\dots \quad (R = 1k\Omega, C = 10nF)$$

2. Amplitude characteristic of RC high-pass filter

Module M2 switch LR filter

	frequency	number of division	sensitivity	U_{IN}	number. of division	sensitivity	U_{OUT}	$k = \frac{U_{OUT}}{U_{IN}}$	k_{dB}
	[Hz]	[div]	[V/div]	[V]	[div]	[V/div]	[V]	[V/V]	[db]
1	100Hz								
2	1kHz								
3	10kHz								
4	20kHz								
5	50kHz								
6	100kHz								
7	500kHz								
8	1Mz								

$$k_{dB} = 20 \log_{10} k$$



Lower cut-off frequency read from the graph:

f =

Calculated lower cut-off frequency

$$f_g = \frac{1}{2\pi RC} = \dots\dots\dots \quad (R = 1k\Omega, C = 10nF)$$