

Messwertetabellen

3.4 Frequenzgang des RC-Tiefpasses

$$\frac{1}{\sqrt{2}} = 0,707$$

#	Frequenz [kHz]	Ue (Kanal A)	Ua (Kanal B)	Ua/Ue
1	0.1	3,606V	3,606V	1
2	0.5	3,575V	3,575V	1
3	0.75	3,543V	3,543V	1
4	1	3,496V	3,449V	0,99
5	1.5	3,386V	3,238V	0,95
6	2	3,26V	3,039V	0,93
7	2.5	3,134V	2,803V	0,89
8	3.2	2,976V	2,504V	0,84
9	4	2,819V	2,205V	0,78
10	5	2,693V	1,906V	0,71
11	6	2,598V	1,669V	0,64
12	7.5	2,504V	1,482V	0,56
13	10	2,409V	1,087V	0,45
14	12	2,346V	929,1mV	0,4
15	15	2,315V	755,9mV	0,33
16	20	2,283V	582,7mV	0,26
17	30	2,283V	393,7mV	0,17
18	50	2,252V	252mV	0,11

niedrig

mittel

hoch

0,1	3,606V	3,606V
0,5	3,575V	3,575V
0,75	3,543V	3,543V
1	3,48	3,43V
1,5	3,37	3,228
2	3,244	3,008
2,5	3,134	2,787
3,2	2,976	2,504
4	2,819	2,205
5	2,693	1,89
6	2,598	1,654
7,5	2,488	1,37
10	2,405	1,087
12	2,362	929n
15	2,315	740n
20	2,283	551,2n
30	2,252	393n
50	2,252	236n

3.5 Frequenzgang eines belasteten RC-Tiefpasses

#	Frequenz [kHz]	Ue (Kanal A)	Ua (Kanal B)	Ua/Ue
1	0.1	2,772V	4402V	0,54
2	0.5	2,772V		
3	0.75	2,992V	1,008V	0,34
4	1	2,976V	992mV	0,33
5	1.5	2,945V	976mV	0,33
6	2	2,913V	960mV	0,33
7	2.5	2,882V	913,4mV	
8	3.2	2,835V	866,1mV	
9	4	2,756V	828,9mV	
10	5	2,693V	740,2mV	
11	6	2,63V	677,2mV	
12	7.5	2,535V	598,4mV	
13	10	2,441V	488,2mV	
14	12	2,409V	425,2mV	
15	15	2,346V	362,2mV	
16	20	2,315V	267,6mV	
17	30	2,283V	189mV	
18	50	2,252V	110,2mV	

hier

0,1	3,008	1,008	0,34
0,5	3,008	1,008	0,34

3.6.2 Frequenzgang des RC-Tiefpasses

#	Frequenz [kHz]	Ue (Kanal A)	Ua (Kanal B)	Ua/Ue
1	0.1	2,268	1,134	
2	0.5	2,268	1,134	
3	0.75	2,268	1,118	
4	1	2,268	1,102	
5	1.5	2,268	1,071	
6	2	2,252	1,039	
7	2.5	2,252	1,008	
8	3.2	2,268	944,9m	
9	4	2,268	881,9m	
10	5	2,268	787m	
11	6	2,252	724,4m	
12	7.5	2,252	629,9m	
13	10	2,252	504m	
14	12	2,252	441m	
15	15	2,252	346,5m	
16	20			
17	30			
18	50			

3.6

0,5 ~~3,228~~ 2V 2,268V 2,268V

5 2,252V 1,6V

20 2,252V 566,9mV