

Shunt Resistor For Noninverting Opamp Stage								
R feedback	510	Ohm						
max. gain	40.86	dB						
dB per step	1.67	dB						
	Gain:	R shunt total:	R shunt single:	R shunt add:	R shunt add eff:	Gain eff:	Gain err:	
24. step	40.86	4.66	4.66	4.66	4.6609	40.86	0.00	relied on PCB
23. step	39.20	5.66	1.00	1.00	1	39.19	0.01	
22. step	37.53	6.87	1.21	1.21	1.2	37.54	-0.01	
21. step	35.86	8.35	1.48	1.48	1.5	35.85	0.02	
20. step	34.20	10.15	1.80	1.79	1.8	34.18	0.01	
19. step	32.53	12.34	2.20	2.18	2.2	32.52	0.01	
18. step	30.86	15.03	2.69	2.67	2.7	30.85	0.02	
17. step	29.20	18.33	3.29	3.27	3.3	29.18	0.02	
16. step	27.53	22.37	4.05	4.01	4.1	27.50	0.03	
15. step	25.86	27.36	4.99	4.90	4.7	25.92	-0.06	
14. step	24.20	33.53	6.17	6.37	6.2	24.24	-0.04	
13. step	22.53	41.19	7.66	7.83	7.5	22.59	-0.06	
12. step	20.86	50.77	9.58	9.91	10	20.85	0.01	
11. step	19.20	62.83	12.06	11.97	12	19.19	0.00	
10. step	17.53	78.16	15.33	15.30	15	17.56	-0.03	
9. step	15.86	97.87	19.71	20.01	20	15.86	0.00	
8. step	14.20	123.59	25.72	25.73	27	14.13	0.07	
7. step	12.53	157.82	34.23	32.96	33	12.53	0.00	
6. step	10.86	204.59	46.78	46.73	47	10.86	0.01	
5. step	9.20	270.86	66.26	65.99	68	9.15	0.04	
4. step	7.53	369.68	98.82	96.82	100	7.49	0.04	
3. step	5.86	528.98	159.30	156.12	160	5.83	0.03	
2. step	4.20	821.01	292.02	288.15	300	4.15	0.05	
1. step	2.53	1508.27	687.26	675.41	680	2.52	0.01	
Quick guide:								
1. Overwrite the values for "R feedback", "max. gain" and "dB per step"								
2. Overwrite the values in "R shunt add eff" with the resistor-values you want to use, starting from the top								

Shunt Resistor For Noninverting Opamp Stage										
R feedback	1000	Ohm								
max. gain	21.67	dB								
dB per step	0.83	dB								
	Gain:	R shunt total:	R shunt single:	R shunt add:	R shunt add eff:	Gain eff:	Gain sum:	Gain sum eff:	Gain sum er:	
24. step	21.67	89.94	89.94	89.94	89.9091	21.67	67.50	67.50	0.00	relised on PCB
23. step	20.83	99.84	9.90	9.93	10	20.84	65.00	64.99	-0.01	
22. step	20.00	111.25	11.41	11.34	11	20.01	62.50	62.52	0.02	
21. step	19.17	123.43	12.18	12.52	13	19.15	60.00	59.97	-0.03	
20. step	18.33	137.63	14.20	13.72	13	18.39	57.50	57.54	0.04	
19. step	17.50	153.63	16.01	16.73	16	17.55	55.00	55.03	0.04	
18. step	16.67	171.66	18.02	18.75	18	16.72	52.50	52.53	0.03	
17. step	15.83	192.27	20.61	21.36	22	15.83	50.00	49.97	-0.02	
16. step	15.00	215.30	23.03	22.39	22	15.05	47.50	47.51	0.01	
15. step	14.17	245.47	30.17	30.56	30	14.12	45.00	45.01	0.02	
14. step	13.33	276.24	30.77	31.33	30	13.33	42.50	42.53	0.03	
13. step	12.50	313.90	37.67	39.00	39	12.44	40.00	40.00	0.00	
12. step	11.67	352.44	38.54	38.54	39	11.67	37.50	37.49	-0.01	
11. step	10.83	402.90	50.45	49.99	51	10.82	35.00	34.98	-0.02	
10. step	10.00	464.75	61.85	60.84	62	9.96	32.50	32.48	-0.01	
9. step	9.17	533.96	69.21	68.05	68	9.17	30.00	30.00	0.00	
8. step	8.33	612.83	78.87	78.92	82	8.38	27.50	27.47	-0.03	
7. step	7.50	728.94	116.11	113.03	110	7.52	25.00	25.02	0.02	
6. step	6.67	864.72	135.78	138.81	130	6.72	22.50	22.55	0.05	
5. step	5.83	1034.36	169.63	178.45	180	5.87	20.00	19.99	-0.01	
4. step	5.00	1270.45	236.09	234.54	240	5.03	17.50	17.48	-0.02	
3. step	4.17	1609.30	338.85	333.39	330	4.20	15.00	15.01	0.01	
2. step	3.33	2101.51	492.22	495.61	510	3.36	12.50	12.48	-0.02	
1. step	2.50	2989.14	887.63	873.23	910	2.48	10.00	9.97	-0.03	
Quick guide:										
1. Overwrite the values for "R feedback", "max. gain" and "dB per step"										
2. Overwrite the values in "R shunt add eff" with the resistor-values you want to use, starting from the top										