

JLH 2005 measurements 1.
2015.02.02

Power from Lab power supply. + 18V , -18V.
 Iq set to 1A. (input=0).
 DC offset at output 4 mV.

Transistors :

Q1= MJ15003 (nr1). hFE=56 at 140mA.

Q2=Mj15003 (nr3). hFE=64 at 140mA. Slightly lower, could test to change Q1 and Q2.

Q3=BD139c

Q8=BD140

Q4, Q5, Q6, Q7 = BC560.

R load = 8 Ohm.

Max output Voltage=9,05 V RMS, beginning of clip on Oscilloscope. (10,2W).

Frequency respons (2,83V, 1W):

frekv. Hz	Volt	dB
10	2,54	-0,94
20	2,740	-0,28
400	2,830	0
1 000	2,830	0
20 000	2,760	-0,21
50 000	2,530	-0,97
80 000	2,250	-1,99
90 000	2,150	-2,39
100 000	2,050	-2,8
120 000	1,880	-3,55

THD + Noise : 10 Hz - 300 kHz :

frekv. Hz	2,83V out	1,00V out	8,00V out
	THD + N	THD + N	THD + N
20	0,0316%	0,0146%	0,1310%
40	0,0339%	0,0147%	0,1330%
63	0,0347%	0,0150%	0,1340%
125	0,0358%	0,0160%	0,1340%
400	0,0366%	0,0156%	0,1370%
1 000	0,0371%	0,0157%	0,1380%
5 000	0,0378%	0,0160%	0,1430%
10 000	0,0390%	0,0162%	0,1530%
20 000	0,0417%	0,0169%	0,1740%