

Pair of transistors for the driver stage.

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Q7 v1.4.7

Pair of transistors for the output stage.																									
Minimum Vds = 150V, same Vgs(th) range (4V), close transductance (Gfs) and Qg.																									
Config S1	DEFAULT		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment	Subjective sound review	
	Q15	N		FQA46N15	110	36	2500		330		192,92				190				190	9.1	0,011	90,9	Yes	Original config	Good sound.
	Q16	P	n.a	FQA36P15	105	19.5	2550			330	189,13				328,49	190		330	190						Well balanced sound.
Config S2	TESTED		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment	Subjective sound review	
	Q15	N		FQA46N15	110	36	2500		330		192,92				190				190	9.1	0,017	88,2	No	Q14=3.6V, Q16=-3.8V - Bad spectrum. With R10/R13=8R2 consume 400mA.	Good sound.
	Q16	P		IXTH48P20P	103	32	5400			330	89,31				155,12	190		150	190						Low frequency drier than S5.
Config S3	TO TEST		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment	Subjective sound review	
	Q15	N		IXTQ50N20P	70	23	2720		330		177,31				190				190	9.1			48v max. Good to try at 35-40V.		
	Q16	P		IXTQ52P10P	60	20	2845			330	169,52														
Config S4	TESTED		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment	Subjective sound review	
	Q15	N		IXTQ36N30P	70	22	2250		330		214,35				190				190	8.2	0,022	87.2 dB	No	Q14=3.6V, Q16=-3.8V With R10/R13=9R1 ou 8R2 - Bad spectrum.	Good sound.
	Q16	P		IXTQ36P15P	55	19	3100			330	155,57				270,21	190		270	190						Low frequency less controlled than S5.
Config S5	TESTED OK		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment	Subjective sound review	
	Q15	N		FQA46N15	110	36	2500		330		192,92				190				190	8.2	0,011	91,1	Yes	Q15/Q16 well balanced (3.6V). With R10/R13=8R2. Good spectrum.	Good sound.
	Q16	P		IXTQ36P15P	55	19	3100			330	155,57				270,21	190		330	285						Well balanced sound.
CANDIDATE			Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment		
Q15		N		IXTQ50N20P	70	23	2720		330		177,31				190				9.1						
Q16		P		IXTQ36P15P	55	19	3100			330	155,57				270,21	190									
CANDIDATE			Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment		
Q15		N		IXFH50N85X	152	32	4480		330		107,65				190				9.1						
Q16		P		IXTH48P20P	103	32	5400			330	89,31				155,12	190									
CANDIDATE			Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment		
Q15		N		IRFP240	70	6.9	1300		330		370,99				190				9.1						
Q16		P		IRFP9240	44	9.4	1200			330	401,90				698,04	190									
SIM NOT WORKING			Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment		
Q15		N		ECX10N20			1	500		330	964,57				190				9.1						
Q16		P		ECX10P20			1.5	500			964,57				1675,31	190									
SIM NOT WORKING			Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15	Freq KHz		R14	R15	Freq KHz		R14	R15	Freq KHz	R10-R13 (R)	THD %	SNR -dBuA	OK	Comment		
Q15		N		ECW20N20			8	900		330	535,87				190				9.1						
Q16		P		ECW20P20			3	1850			267,93				452,78	190									

Freq MHz	R40	R41
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DEFAULT		Status	Parts
01	N		IRE610

[illegible]