Q17 Power Transistors Selection Table

Pair of transistors for the driver stage.

Q7 v1.4.0

Minimum Vds = 150V, same Vgs(th) range (4V), close transductance (Gfs)

	Minimum default config								Cac	ulated (RC	iss filter)	Final resistor values (scope							1			
	DEFAULT	S	atus	Parts	Qg nC	Gfs Sie	Ciss pF	R7		R8	Freq MHz	R7	R8	Freq MHz	R7	R8	Freq MHz			OK	Comment	
onfig D1	Q5		OL	FQP3P20	6	1.23	1	190	100		8,38	104,	7	8	100)	8			Yes	Original config	
	Q6	N	OL	FQP3N30	7	1.75		75		100	21,22		265,2	5 8		120	8			100	ongar comig	
							-														T -	1
	LIVE	S	atus	Parts	Qg nC	Gfs Sie	Ciss pF			R8	Freq MHz	R7	R8	Freq MHz	R7	R8	Freq MHz			OK	Comment	
Config D2		Р		FQPF7P20	25	3.5		770	100		2,06	93,9	5	2,2	100		2,2			Yes	Small oscillation at clip (Q6).	-
	Q6	N	OL	2SK3564	17	2.6	, 7	700		100	2,27		103,3	4 2,2		100	2,2					_
				<u> </u>	11		T		-			1	1	T T	1	1	T	1			I.	7
	TESTED		atus	Parts	_		Ciss pF			R8	Freq MHz	R7	R8	Freq MHz	R7	R8	Freq MHz			OK	Comment	
Config D3	Q5	P		FQPF7P20	25	3.5		770	100	400	2,06	93,9	_	2,2	100		2,2			Yes	0 1 1 11 6 60	4
	Q6	N		FQPF3N80C	16.5	3	7	705		100	2,25		108,5	5 2,2		100	2,2				Overshoot with config S2.	1
				<u>. </u>	Ta = 1	01 0:	To: -		-		1	R7	R8	T T	1	R8	1			~	In .	7
	CANDIDATE		atus	Parts		Gfs Sie				R8	Freq MHz			Freq MHz	R7	K8	Freq MHz			OK	Comment	4
	Q5	P		IRF9610	11			170	100	100	9,36	98,5		9,5								4
	Q6	N		IRF610	8.2	0.8	1 1	140		100	11,36		119,6	6 9,5	l l							1
	CANDIDATE	1 16		Dt-	To C T	Cf- Ci-	C: E	107	-	DO.	F 8 411-	ln-	DO.	Ir 8411-	ln-	DO.	Ir			01/	Ic	7
			atus	Parts		Gfs Sie				R8	Freq MHz	R7	R8	Freq MHz	R7	R8	Freq MHz			UK	Comment	4
	Q5	P		IRFI9620G	15	1,3		340	100	400	4,68	99,5		4,7								4
	Q6	N		IRFI620G	14	1.5	2	260		100	6,12		130,2	4 4,7								1
	Pair of transistors for the output stage. Minimum Vds = 150V, same Vgs(th) range (4V), close transductance (Gfs) and Qg.																					
	DEFAULT			Parts		Gfs Sie				R15	Freg KHz	R14	R15	Freg KHz	R14	R15	Freg KHz	THD+N %	SNR -dRi	ОК	Comment	Subjective sound review
onfig S1	Q15	N 3	atus	FQA46N15	110	36	25 CISS PF	_	330	KID	192,92	335,0	113	190	330	1/13	100	0,012	86,8			Subjective sound review
omig 31	Q16	D	n.a	FQA36P15	105	19.5	5 25	_	550	330	192,92	333,0	328,49	9 190	330	220	190	0,012	00,0	Yes	Original config	
	Q10	r	II.d	FQA30F13	103	15.5	23	.30		330	105,15		320,4	190		330	190					
	ON TEST	C.	atus	Parts	Oc nC	Gfs Sie	Ciss pF	R14		R15	Freq KHz	R14	R15	Freq KHz	R14	R15	Freq KHz	THD+N %	SNR dBu	ОК	Comment	Subjective sound review
onfig S2		NI NI	atus	FQA46N15	110	36	25 25		330	K13	192,92	335,0	K13	190	330	V 12	190	0,013	87,1		Overshoot with config D3.	Subjective sould review
Jillig 32	Q15 Q16	P		IXTH48P20P	103	30			330	330	89.31	333,0	155.1		330	330	190	0,013	07,1	Yes	Need R15=150R to remove overshoot.	
	Q10	г		IXTH40FZUF	103	32	. 54	00		330	05,51		133,1	2 190		330	190				Need K13-130K to remove overshoot.	
	ON TEST	l c	atus	Parts	Oc nC	Gfs Sie	Cicc nE	R14		R15	Freq KHz	R14	R15	Freq KHz	R14	R15	Freq KHz	THD+N %	CND 4D	ОК	Comment	Subjective sound review
onfig S5		N	atus	FQA46N15	110	36			330	итэ	192.92	335.0	K13	190	330		190	0.012	91,1	OK	Tested with config D2.	Subjective sould review
Ulling 33	Q16	IN D		IXTQ36P15P	55	10	31		330	330	155,57	333,0	270,2		330	330		0,012	91,1	Yes	With R10/R13=8.2R/8.4R	
	QIB	Р		IXTUSOPISP	33		31	.00		330	155,57		270,2	1 190	l l	330	263				WILII K10/K15=6.2K/6.4K	
	ON TEST	l c	atus	Parts	Oc nC	Gfs Sie	Ciss pF	R14		R15	Freg KHz	R14	R15	Freg KHz	R14	R15	Freg KHz	THD+N %	CND 4D	ОК	Comment	Subjective sound review
Config S4	Q15	NI S	atus	IXTQ36N30P	70	22	2 22		330	KIJ	214,35	372,2	1/13	190	374		190	0,022	87.2 dB		Tested with config D2.	Subjective sound review
John S J	Q16	P		IXTQ36P15P	55	19	_		330	330	155,57	372,2	270,2		37.	160		0,022	67.2 UD	Yes	Need R15=160R to remove overshoot.	
	QIO	г		INTUSURISE	33	15	31	.00		330	133,37		270,2	1 150	I	100	320				Need K13-100K to remove overshoot.	
	ON TEST	c	atus	Parts	Og nC	Gfc Sio	Ciss nE	D1/I		D15	Eron KH2	D1/I	D15	Eron KH2	P1/	D15	Eron KH2	THD+N %	SND dBu	OK	Comment	1
	ON TEST		atus	Parts		Gfs Sie				R15	Freq KHz	R14	R15	Freq KHz	R14	R15	Freq KHz	THD+N %	SNR dBu	OK	Comment 49 y may Toctod with config D2]
ontig 53	Q15	N	atus	IXTQ50N20P	70	23	3 27	720	330		177,31	R14 307,9	5	190	R14)	190	THD+N % 0,017	SNR dBu 87.3	OK Yes	48v max. Tested with config D2.	
ontig 53			atus				3 27	720		R15				190			190					
ontig 53	Q15 Q16	N P		IXTQ50N20P IXTQ52P10P	70 60	23 20	27	720 345	330	330	177,31 169,52	307,9	294,4	190 3 190	300	170	190	0,017	87.3	Yes	48v max. Tested with config D2. Need R15=170R to remove overshoot.	
ontig 53	Q15 Q16 CANDIDATE	N P		IXTQ50N20P IXTQ52P10P Parts	70 60 Qg nC	23 20 Gfs Sie	27 28 Ciss pF	720 345 R14	330		177,31 169,52 Freq KHz	307,9	294,43 R15	190 3 190 Freq KHz)	190		87.3	Yes	48v max. Tested with config D2.	
onrig 53	Q15 Q16 CANDIDATE Q15	N P S		IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P	70 60 Qg nC 70	23 20 Gfs Sie 23	27 28 Ciss pF 3 27	720 345 R14 720	330	330 R15	177,31 169,52 Freq KHz 177,31	307,9	294,43 R15	190 3 190 Freq KHz	300	170	190	0,017	87.3	Yes	48v max. Tested with config D2. Need R15=170R to remove overshoot.	
onig 53	Q15 Q16 CANDIDATE	N P		IXTQ50N20P IXTQ52P10P Parts	70 60 Qg nC	23 20 Gfs Sie	27 28 Ciss pF 3 27	720 345 R14 720	330	330	177,31 169,52 Freq KHz	307,9	294,43 R15	190 3 190 Freq KHz	300	170	190	0,017	87.3	Yes	48v max. Tested with config D2. Need R15=170R to remove overshoot.	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16	N P S	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P	70 60 Qg nC 70 55	23 20 Gfs Sie 23 19	27 28 Ciss pF 3 27 31	720 845 R14 720	330	330 R15	177,31 169,52 Freq KHz 177,31 155,57	R14 307,9	R15 5 270,2	190 3 190 Freq KHz 190 1 190	R14	170 R15	190 330 Freq KHz	0,017 THD+N %	87.3 SNR dBu	Yes OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE	N P S N P S	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts	70 60 Qg nC 70 55	23 20 Gfs Sie 23 19	Ciss pF 27 28	720 345 R14 720 100	330	330 R15	177,31 169,52 Freq KHz 177,31 155,57	R14 307,91	R15 270,2	190 3 190 Freq KHz 190 1 190 Freq KHz	300	170	190	0,017	87.3 SNR dBu	Yes OK	48v max. Tested with config D2. Need R15=170R to remove overshoot.	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15	N P S N P S N	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X	70 60 Qg nC 70 55 Qg nC 152	23 20 Gfs Sie 23 19 Gfs Sie 32	Ciss pF 31 Ciss pF 2 44	720 345 R14 720 100 R14	330	330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65	R14 307,9	R15 5 270,2	190 3 190	R14	170 R15	190 330 Freq KHz	0,017 THD+N %	87.3 SNR dBu	Yes OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment	
omig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE	N P S N P S	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts	70 60 Qg nC 70 55	23 20 Gfs Sie 23 19	Ciss pF 31 Ciss pF 2 44	720 345 R14 720 100 R14	330	330 R15	177,31 169,52 Freq KHz 177,31 155,57	R14 307,91	R15 270,2	190 3 190	R14	170 R15	190 330 Freq KHz	0,017 THD+N %	87.3 SNR dBu	Yes OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16	N P S N P P	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXFH50N85X	70 60 Qg nC 70 55 Qg nC 152 103	23 20 Gfs Sie 23 19 Gfs Sie 32 32	Ciss pF 2 44 2 54	720 345 R14 720 100 R14 480	330	330 R15 330 R15	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31	307,91 R14 307,91 R14 186,9	R15 5 270,2:	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190	R14	R15	190 330 Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu	Yes OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE	N P S N P S N P S S S S S S S S S S S S	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts	70 60 0 70 55 Qg nC 152 103	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie	Ciss pF	720 345 R14 720 100 R14 180 400	330	330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz	307,9 R14 307,9 R14 186,9	R15 5 270,2 R15 7 155,1	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz	R14	170 R15	190 330 Freq KHz	0,017 THD+N %	SNR dBu SNR dBu	Yes OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q16 CANDIDATE Q15 Q16	N P S N P S N P S N	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240	70 60 Qg nC 70 55 Qg nC 152 103 Qg nC 70 70	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9	Ciss pF 244 2 54 Ciss pF 31 31 31 31 31 31 31 3	720 845 R14 720 100 R14 880 400 R14	330	330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99	307,91 R14 307,91 R14 186,9	R15 5 270,2: R15 7 155,1:	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz 190	R14	R15	190 330 Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu	Yes OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE	N P S N P S N P S S S S S S S S S S S S	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts	70 60 0 70 55 Qg nC 152 103	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9	Ciss pF 244 2 54 Ciss pF 31 31 31 31 31 31 31 3	720 345 R14 720 100 R14 180 400	330	330 R15 330 R15	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz	307,9 R14 307,9 R14 186,9	R15 5 270,2 R15 7 155,1	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz 190	R14	R15	190 330 Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu	Yes OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q16 CANDIDATE Q15 Q16	N P S N P S N P P P S N P P P S N P P P S N P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P P	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240 IRFP240	70 60 70 70 55 Qg nC 152 103 Qg nC 70 44	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9 9.4	Ciss pF Add Ciss pF Ciss pF Add Ciss pF Ciss pF Add Ciss pF Ad	720 845 R14 720 100 R14 480 400 R14 800 200	330 330 330	330 R15 330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90	R14 307,9 R14 186,9 R14 644,3:	R15 5 270,2: R15 7 155,1: R15 6 698,0:	190 3 190	R14 R14 R14	R15	Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu SNR dBu	OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI	N P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P P	atus atus atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240 IRFP240 IRFP240	70 60 70 70 55 Qg nC 152 103 Qg nC 70 44	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9	Ciss pF 2 31 Ciss pF 2 44 Ciss pF 3 4 Ciss pF 13 4 Ciss pF 12 Ciss pF 13 Ciss pF 14 Ciss pF 15 Ciss p	720 845 R14 720 100 R14 880 480 480 800 R14 800 R14	330 330 330	330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90	R14 307,90 R14 186,9 R14 644,3	R15 7 155,1: R15 698,0	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz 190 4 190 Freq KHz 190	R14	R15	190 330 Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu SNR dBu	OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI Q15	N P S N P S N P P SKING S N	atus	IXTQ50N20P	70 60 70 70 55 Qg nC 152 103 Qg nC 70 44	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9 9.4 Gfs Sie	Ciss pF	720 845 720 100 8 R14 480 400 8 R14 800 200	330 330 330	330 R15 330 R15 330 R15 R15	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90 Freq KHz 964,57	R14 307,9 R14 186,9 R14 644,3:	R15 7 155,1: R15 698,0: R15	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz 190 4 190 Freq KHz 190 4 190	R14 R14 R14	R15	Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu SNR dBu	OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment	
ontig 53	Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI	N P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P S N P P P P	atus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240 IRFP240 IRFP240	70 60 70 70 55 Qg nC 152 103 Qg nC 70 44	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9 9.4	Ciss pF	720 845 R14 720 100 R14 880 480 480 800 R14 800 R14	330 330 330	330 R15 330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90	R14 307,90 R14 186,9 R14 644,3	R15 7 155,1: R15 698,0	190 3 190 Freq KHz 190 1 190 Freq KHz 190 2 190 Freq KHz 190 4 190 Freq KHz 190 4 190	R14 R14 R14	R15	Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu SNR dBu	OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment	
onrig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI Q15 Q16	N P P S N P P S N N P P P S N N P P P S N N N P P P S N N N N	ratus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240 IRFP9240 Parts ECX10N20 ECX10N20 ECX10N20	70 60 Qg nC 70 55 152 103 Qg nC 70 70 44 Qg nC 100 Qg nC	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 69 9.4 Gfs Sie 1.5	Ciss pF Ciss	720 345 R14 720 100 R14 880 400 R14 800 200	330 330 330 330	330 R15 330 R15 330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90 Freq KHz 964,57	R14 186,9 R14 644,3:	R15	190 190 Freq KHz 190	R14 R14 R14 R14	R15 R15 R15	Freq KHz Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N % THD+N %	SNR dBu SNR dBu SNR dBu SNR dBu	OK OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment Comment	
omig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI Q15 Q16 SIM NOT WORI	N P S S N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N P P S N N N N	ratus	IXTQ50N20P	70 60 Qg nC 70 55 152 103 Qg nC 70 70 44 Qg nC 100 Qg nC	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 6.9 9.4 Gfs Sie	Ciss pF Ciss	720 345 R14 720 100 R14 880 480 200 R14 800 600 R14	330 330 330 330	330 R15 330 R15 330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90 Freq KHz 964,57 964,57	R14	R15	190 3 190	R14 R14 R14	R15	Freq KHz Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N %	SNR dBu SNR dBu SNR dBu SNR dBu	OK OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment	
onig 53	Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 CANDIDATE Q15 Q16 SIM NOT WORI Q15 Q16	N P P S N P P S N N P P P S N N P P P S N N N P P P S N N N N	ratus	IXTQ50N20P IXTQ52P10P Parts IXTQ50N20P IXTQ36P15P Parts IXFH50N85X IXTH48P20P Parts IRFP240 IRFP9240 Parts ECX10N20 ECX10N20 ECX10N20	70 60 Qg nC 70 55 152 103 Qg nC 70 70 44 Qg nC 100 Qg nC	23 20 Gfs Sie 23 19 Gfs Sie 32 32 Gfs Sie 69 9.4 Gfs Sie 1.5	Ciss pF D Ciss pF	720 345 R14 720 100 R14 880 400 R14 800 200	330 330 330 330	330 R15 330 R15 330 R15 330 R15 330	177,31 169,52 Freq KHz 177,31 155,57 Freq KHz 107,65 89,31 Freq KHz 370,99 401,90 Freq KHz 964,57	R14 186,9 R14 644,3:	R15	190 3 190	R14 R14 R14 R14	R15 R15 R15	Freq KHz Freq KHz Freq KHz Freq KHz	0,017 THD+N % THD+N % THD+N %	SNR dBu SNR dBu SNR dBu SNR dBu	OK OK OK	48v max. Tested with config D2. Need R15=170R to remove overshoot. Comment Comment Comment Comment	

Pair of transistors for op-amp power supply

		Tall of distribution for the army power supply																			
	Minimum Vds = 60V, same Vgs(th) range (4V)																				
	DEFAULT		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R40	R41	Freq MHz		R40	R41	Freq MHz		R40	R41	Freq MHz		OK	Comment
Config A1	Q1	N		IRF610		0.8	140	100		11,36		126,31		9		120		9			Original config
	Q4	Р		IRF9610		0.9	170)	100	9.36			104.02	9			100	9			