Q17 Power Transistors Selection Table

Pair of transistors for the driver stage.

	Minimum Vds =	150\	/ same V	gs(th) range (4)	/) close	transduct	tance (Gfs	١		Pair Oi	transistors fo	rtne	uriver stag	e.						Q7 v:
	IVIIIIIIIIIII VUS -	1501	, suite v			lefault co		,					Cacı	lated (RCi	ss filter)	Fir	nal resistor	values		1
	DEFAULT		Status	Parts	Og nC		Ciss pF	R7	F	28	Freq MHz		R7	R8	Freq MHz	R7	R8	Freg MHz	OK	Comment
onfig D1	05	Р	EOL	FQP3P20	6	1.23	190	1	100		8.38		104,7		8	100)	8	Yes	
6	Q6	N	EOL	FQP3N30	7	1.75	75	1	100	100	21,22		104,7	265,25	. 8	100	120	8	Yes	Original config
	Qu	14	LOL	1 Q1 51450	,	1.75	, , , ,			100	21,22			203,23	, U		120	0	103	
	LIVE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	D7		88	Freq MHz		R7	R8	Freq MHz	R7	R8	Freq MHz	OK	Comment
nfig D2	Q5	D	Status	FQPF7P20	25	3.5	590	1 1	100	10	2,70		122.61	No	2.2	120	no	2.2	Yes	Small oscillation
coming D2	Q6	N	501		17			-	100	400			122,01	402.24	2,2	120	100			
	Ųб	IN	EOL	2SK3564	1/	2.6	700			100	2,27			103,34	2,2		100	2,2	Yes	at clip (Q6).
		_		-			T	1						1	I I		1			Т-
Config D3	TESTED	1	Status	Parts	Qg nC		Ciss pF	R7	_	R8	Freq MHz		R7	R8	Freq MHz	R7	R8	Freq MHz	OK	Comment
	Q5	Р		FQPF7P20	25	3.5	590	1	100		2,70		99,9		2,7	100		2,7	Yes	Overshoot with config S
	Q6	N		FQPF3N80C	16.5	3	543			100	2,93			108,55	2,7		110	2,7	Yes	Ok with config S1, S3
	CANDIDATE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R7	F	₹8	Freq MHz		R7	R8	Freq MHz	R7	R8	Freq MHz	ОК	Comment
	Q5	Р		IRF9610	11	0.9	170	1	100		9,36		104,02		9					
	Q6	N		IRF610	8.2					100	11,36			126,31	. 9					
	1-2-																			L
	CANDIDATE		Status	Darte	Qg nC	Gfc Sio	Ciss pF	R7	- 10	88	Freq MHz		R7	R8	Freq MHz	R7	R8	Freq MHz	ОК	Comment
		-	Status			GIS SIE				10				No		Ν/	NO	rieq winz	UK	Comment
	Q5	P		IRF9620	22	1 1 5	350		100	400	4,54		101,05	400.00	4,5	+	-			
	Q6	N		IRF620	14	1.5	260			100	6,12			136,02	4,5					.1
	Minimum Vds -	150	/ camo \/	ac(th) range (4)	/\ closs	transduce	tance / Cfc	١		Pair of	transistors for	the c	output stag	e.						
	Minimum Vds =	130/	Status	Parts		Gfs Sie	Ciss pF	R14	-	R15	Eron VIII-		R14	R15	Eroa VII-	R14	R15	Eroa Killa	OK	Commont
Config S1		+	Status		Qg nC	uts Sie	2500			115	Freq KHz 192.92			K15	Freq KHz	R14	K15	Freq KHz		Comment
	Q15	N		FQA46N15	110	36		- 3	330				335,06		150	330)	150	Yes	Original config
	Q16	Р	n.a	FQA36P15	105	19.5	2550			330	189,13			328,49	190		330	190	Yes	8
	LIVE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	ОК	Comment
Config S2	Q15	N		FQA46N15	110	36	2500	3	330		192,92		335,06		190	330)	190	Yes	Overshoot left
	Q16	Р		IXTH48P20P	103	32	5400			330	89,31		,	155,12	190		150	190	Yes	with new R15 value.
	CANDIDATE	1	Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	- 1-	R15	Freg KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	OK	Comment
		-	Status							(12				K12					UK	Comment
	Q15	N		FQA46N15	110	36			330		192,92		335,06		190	330		190		
	Q16	Р		IXTQ36P15P	55	19	3100			330	155,57			270,21	. 190		270	190		
	CANDIDATE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	OK	Comment
	Q15	N		IXTQ50N20P	70	23	2720	3	330		177,31		307,96		190	300)	190		
	Q16	Р		IXTQ36P15P	55	19	3100			330	155,57			270,21	. 190		270	190		
							1										1			•
	CANDIDATE+		Status	Parts	Og nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	OK	Comment
	Q15	N	otatas	IXTQ36N30P	70	22	2250		330	120	214,35		372,29		190	374		190		Comment
	-	P				19		-	330	330			372,23	270.24		3/4				+
	Q16	Р		IXTQ36P15P	55	19	3100			330	155,57			270,21	. 190		270	190		
											,									T
	TESTED		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	OK	Comment
nfig S3	Q15	N		IXTQ50N20P	70	23		3	330		177,31		307,96		190	300)	190	Yes	48v max
	Q16	Р		IXTQ52P10P	60	20	2845		\top	330	169,52			294,43	190		170	330	Yes	46V max
															•					
	CANDIDATE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	OK	Comment
	Q15	N		IXFH50N85X	152	32			330		107,65		186,97		190					
	Q16	P		IXTH48P20P	103	32				330			200,37	155,12		1	†	+		+
	410	į r	1	INTI POPZUP	103	32	. 5400	1		330	05,31			133,12	130	1	1	1		1
	CANDIDATE	т —	Ct-t-	In	0	Cf- Ci	C1	D4.4	- 1-	145	F 1/11-		D4.4	D45	F 1/11-	D44	DAF	Ie	01/	C
	CANDIDATE	+-	Status			Gfs Sie		R14		R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	UK	Comment
	Q15	N		IRFP240	70			3	330		370,99		644,35		190					ļ
	Q16	Р		IRFP9240	44	9.4	1200			330	401,90			698,04	190					
	SIM NOT WORK	ING	Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	F	R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	ОК	Comment
	Q15	N		ECX10N20	1	1	500		330		964,57		1675,31	1	190			1		
	Q16	P		ECX10P20		1.5		<u> </u>	- 50	330			10,0,01	1675,31	. 190			1		†
	410	1 "	l	LCATOF ZO	1	1.3	300	1		330	304,37		1	10/3,31	. 130	1	1	1		1
				I	T	ar a:	T	In	- 1-		I= I			1	I= [1	I	I=		Ta .
	SIM NOT WORK		Status	Parts	Qg nC	Gfs Sie		R14		R15	Freq KHz		R14	R15	Freq KHz	R14	R15	Freq KHz	ОК	Comment
	Q15	N		ECW20N20		8			330		535,87		930,73		190					
	Q16	Р		ECW20P20		3	1850			330	267,93			452,78	190					
									-	Pair of tr	ansistors for o									
													p power su	DDIV						
	Minimum Vds -	601/	same Va	s(th) range (AV)	١					. u o. u.	ansistors for o	p-aiii	p power su	ppiy						
	Minimum Vds =	60V,				Gfc Sia	Cicc nE	P/10				p-aiii	-		From MH-	P/IC	D/11	Eroa MUz	Οv	Comment
	DEFAULT	60V,	same Vg Status	Parts	Qg nC		Ciss pF	R40	F	R41	Freq MHz	p-aiii	R40	R41	Freq MHz	R40	R41	Freq MHz	OK	Comment
nfig A1		60V,				Gfs Sie	Ciss pF					p-aiii	-		Freq MHz	R40	R41	Freq MHz	OK	Comment