## Q17 Power Transistors Selection Table

Pair of transistors for the driver stage.

DEFAULT   Status   Parts   Qg nC   Gf Sie   Class pF   R7   R8   Freq MHz   R7   R8   Freq		Minimum Vds =	1 = 0\	/ came \/	ac(th) range (4)	\/\ closo	trancduc	tanco (Gfc	١		P	air of transis	tors to	or the arive	er stage.								Q7 v1.3.6
Control   1   1   1   1   1   1   1   1   1																Caculated (PCics filter) Final resister values (scope)							Q7 VI.3.0
County   C		DEFAULT		Status					R7	R8		Frea MHz			R8			R7				OK	Comment
Confect   Conf	Config D1		P			6				n		_			NO	TTCQ IVIIIZ	R	100	110	110	8		
Config D    UVX	cog 2 1		N			7	1.25	71	5		100	-,		104,7	265.25		R	100	1	20	8		Original config
Config 65		1 210 22													200,20				_				
Config 65		LIVE		Status	Parts	Og nC	Gfs Sie	Ciss nF	R7	R8		Freg MHz		R7	R8	Freg MHz		R7	R8	Fre	n MHz	OK	Comment
Config 10   1   1   1   1   1   1   1   1   1	Config D2	05	Р			25			0 100	0				93.95		2.3	2	100	)		2.2		
Corlig D. VISSYLD Sistata Ports	ū	06	N	EOL		17	2.6		_		100			,	103.34	2.3	2		1	00	2.2		
Coding 56   P   GOPPPEO   25   3.5   779   100   2.0   2.0   100   2.2   100   2.2   100   2.2   100   2.2   100   2.2   100   100   2.2   2.2   2.2   2.2   2.2   2.2   2.2   2.2   2.2		1							-			,			, .						,		
Coding 56   P   GOPPPEO   25   3.5   779   100   2.0   2.0   100   2.2   100   2.2   100   2.2   100   2.2   100   2.2   100   100   2.2   2.2   2.2   2.2   2.2   2.2   2.2   2.2   2.2		TESTED		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R7	R8		Freq MHz		R7	R8	Freq MHz		R7	R8	Fre	eg MHz	ОК	Comment
Control   1	Config D3		Р						0 100	0				93,95			2	100	)		2,2		
CANDIDATE   Status Parts   Qg nct Gifs 5s   Ciss pt   R7   R8   Freq Mitz   R7   R8	1	Q6	N		FQPF3N80C	16.5	3	70!	5		100	2,25			108,55	2,3	2		1	00	2,2	Yes	Overshoot with config S2.
GS   F     8879510   13   0.9   170   100   3.96   79.56   99.56   9.5																							
GS   F     8879510   13   0.9   170   100   3.96   79.56   99.56   9.5		CANDIDATE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R7	R8		Freq MHz		R7	R8	Freq MHz		R7	R8	Fre	eq MHz	ОК	Comment
CANDIDATE   Status   Parts   Og oc   Gf Siz   Clas pF   R7   R8   Prog Nets   R7   R8   R7   R8   Prog Nets   R7   R8   Prog Nets   R7   R8   Prog Nets   R7   R8   R8		Q5	Р		IRF9610				0 100	0				98,54		9,	5						
Config 51   Config 51   Config 52   Config 52   Config 52   Config 54   Conf		Q6	N		IRF610	8.2	0.8	140	0		100	11,36			119,66	9,	5						
Config 51   Config 51   Config 52   Config 52   Config 52   Config 54   Conf																							
Config 51   Config 51   Config 52   Config 52   Config 52   Config 54   Conf		CANDIDATE		Status	Parts	Qg nC	Gfs Sie	Ciss pF	R7	R8		Freq MHz		R7	R8	Freq MHz		R7	R8	Fre	q MHz	ОК	Comment
Pair of transistors for the output stage.		Q5	Р		IRFI9620G	15	1,3	340	0 100	0		4,68		99,59		4,	7						
Minimum Vis = 150Y, same Vglith) ringe (VI), lose Variand/Lartic (Fis)    Config 51   Conf			N		IRFI620G	14	1.5	260	0		100	6,12			130,24	4,	7						
Minimum Vis = 150Y, same Vglith) ringe (VI), lose Variand/Lartic (Fis)    Config 51   Conf																							
DEFAULY   Status   Parts   Que no   Gris   Cas pp   R14   R15   Free RHz   R14   R15   Free RHz   R14   R15   Free RHz   OK   Comment											Pa	air of transist	tors fo	or the outpo	ut stage.								
Config 5   0.5   N   PLANEAUS   110   30   2500   330   109,202   335,006   1900   330   350   Yes   Original config 2   100   1   330   150   Yes   Original config 2   100   1   300   150		Minimum Vds =	150\	/, same V	gs(th) range (4)	V), close	transduc	tance (Gfs	)														
UNIVERSIDES   Status   Parts   GAMODATE   Status   Parts   Game   Gris   Gis   Gis   Gis   Parts   R14   R15   Freq KHz   R14   R15   F				Status		-	Gfs Sie			_					R15			-	R15	Fre			Comment
Config 54   Status   Parts   Status	Config S1		N		FQA46N15		36	2500	330	0		- /-		335,06			0	330	)		190	Yes	Original config
Config 54   CANDIDATE   Status   Parts   Og nC   Gf 5ie   CSs pF   R14   R15   Freq RHz		Q16	Р	n.a	FQA36P15	105	19.5	2550	0		330	189,13			328,49	190	0		3	30	190	Yes	Original comig
Config 54   CANDIDATE   Status   Parts   Og nC   Gf 5ie   CSs pF   R14   R15   Freq RHz																							
TESTED   Status   Parts   Og PC   GFS   Stee   State   Parts   Og PC   GFS   State				Status		Qg nC	Gfs Sie	Ciss pF		R15					R15	Freq KHz		R14	R15	Fre	eq KHz	OK	Comment
Config 56   CANDIDATE   Status   Parts   Og nC   Gifs Sie   Class pF   R14   R15   Freq KHz   R14   R15   Freq K	Config S2		N			110	36	2500		0				335,06		151	0	330	)		130		Overshoot with config D3. Ok with D1, D2
Config 55  0.15 N FOAGNIS 110 36 2500 330 192,92 335,06 190 330 1930 Ves Read RISTS Freq KHz  0.16 P N KTG36P15P 55 19 3100 330 195,527 770,21 190 1830 190 Ves Read RISTS Freq KHz  0.00 185 N S STATUS PATS  0.15 N STATUS PATS  0.15 N STATUS PATS  0.15 N S STATUS P		Q16	Р		IXTH48P20P	103	32	5400	0		330	89,31			155,12	190	0		1	50	190	Yes	Need R15=150R to remove overshoot.
Config 55  0.15 N FOAGNIS 110 36 2500 330 192,92 335,06 190 330 1930 Ves Read RISTS Freq KHz  0.16 P N KTG36P15P 55 19 3100 330 195,527 770,21 190 1830 190 Ves Read RISTS Freq KHz  0.00 185 N S STATUS PATS  0.15 N STATUS PATS  0.15 N STATUS PATS  0.15 N S STATUS P																							
CANDIDATE   Status   Parts   OR   Cifes Se   Cises pf   R14   R15   Freq KHz   R14   R15   Freq KHz   R16   R16   R15   Freq KHz   R16				Status			Gfs Sie								R15	Freq KHz		R14	R15	Fre	eq KHz	OK	
Config S6  CANDIDATE  Status Parts  Og nC 6fs Sie Ciss pF 814 R15 Freq KHz  Q15 N OKTOSONZOP 70 23 2720 330 S177,31 307,96 P190 3300 P190 P190 P190 P190 P190 P190 P190 P1	Config S5									_				335,06				330	+				
Config S6   Q15		Q16	Р		IXTQ36P15P	55	19	3100	0		330	155,57			270,21	. 190	0		1	80	285	Yes	Need R15=180R to remove overshoot.
Config S6   Q15																							
Q16   P				Status						_					R15				+	Fre		OK	Comment
Config \$4   CanDIDATE   Status   Parts   Og nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz	Config S6													307,96				300					
Config \$4   0.15   N   IXTQ36N30P   70   22   2250   330   214,35   372,29   190   374   190     Config \$53   Q16   P   IXTQ36P15P   55   19   3100   330   155,57   270,21   190   374   190     Config \$53   Q15   N   IXTQ50N20P   70   23   2720   330   177,31   307,96   190   300   190   9   Yes   48y max. Tested with config D2.   Q16   P   IXTQ52P10P   60   20   2845   330   169,52   294,43   190   170   330   Yes   Need R15=170R to remove overshoot.      CANDIDATE   Status   Parts   Qg nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   R14   R15		Q16	Р		IXTQ36P15P	55	19	3100	0		330	155,57			270,21	. 190	0		2	70	190		
Config \$4   0.15   N   IXTQ36N30P   70   22   2250   330   214,35   372,29   190   374   190     Config \$53   Q16   P   IXTQ36P15P   55   19   3100   330   155,57   270,21   190   374   190     Config \$53   Q15   N   IXTQ50N20P   70   23   2720   330   177,31   307,96   190   300   190   9   Yes   48y max. Tested with config D2.   Q16   P   IXTQ52P10P   60   20   2845   330   169,52   294,43   190   170   330   Yes   Need R15=170R to remove overshoot.      CANDIDATE   Status   Parts   Qg nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   R14   R15		T			-		r	1	1					<u> </u>	1	1	_						T=
Display			١	Status				•		_		•			R15		_			Fre		OK	Comment
TESTED	Config 54					, 0								372,29				374					
Config 53   Q15		Q16	P		IXTQ36P15P	55	19	3100	)		330	155,57			270,21	. 190	0		2	70	190		
Config 53   Q15						-	01 01	e: -									<del>-</del>						In .
CANDIDATE   Status   Parts   Og nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   R14   R15	Cantia C2		١							_					R15					Fre			
CANDIDATE   Status   Parts   Qg nC   Gfs Sie   Giss pF   R14   R15   Freq KHz   R14   R15	Coming 33									_	220			307,96	204.42			300		70			
Q15   N		Q10	Р	1	IVI MOSTATOS	60	20	284	7		3 <b>3</b> U	169,52	1	<del>                                     </del>	294,43	190	U	1	1	/U	330	162	Need KID=1/UK to remove overshoot.
Q15   N		CANDIDATE		Status	Parts	Og nC	Gfs Sie	Ciss nE	R14	R15	- 1	Fren KU2		R14	R15	Fren VII-	1	R14	R15	Ero	n KH2	OK	Comment
CANDIDATE			N								<del>-  </del>							11.14		116	.y 1112	OK	Comment
CANDIDATE   Status   Parts   Qg nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   R14   R15											330			100,37	155 12			1	1				
Q15   N			1 -	1		103	32	J-400	<u> </u>	-	550	05,31		1	133,12	. 150	~	1	1	- 1			1
Q15   N		CANDIDATE	Т	Status	Parts	Og nC	Gfs Sie	Ciss nF	R14	R15	- 1	Fren KHz	1	R14	R15	Freg KH7	1	R14	R15	Fre	n KHz	OK	Comment
Q16   P			N	Julus								_					o			1.76	- NIII	OK	
SIM NOT WORKING   Status   Parts   Qg nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   R15											330			2,55	698 N4			1	1	+			
Q15   N			٠.				, ,,,		- 1			.01,50		1	230,04		- 1		1				1
Q15   N		SIM NOT WORK	ING	Status	Parts	Qg nC	Gfs Sie	Ciss nF	R14	R15	- 1	Frea KHz		R14	R15	Frea KHz	1	R14	R15	Fre	a KHz	OK	Comment
Column   P			_	2.2.00			1								1		o	1	1			J.,	
SIM NOT WORKING   Status   Parts   Qg nC   Gfs Sie   Ciss pF   R14   R15   Freq KHz   OK   Comment   Commen						<b>†</b>	1.5				330				1675.31			1		1			
Q15         N         ECW20N20         8         900         330         535,87         930,73         190         900         900																	- 1		1				1
Q15         N         ECW20N20         8         900         330         535,87         930,73         190         900         900		SIM NOT WORK	ING	Status	Parts	Qg nC	Gfs Sie	Ciss pF	R14	R15		Frea KHz		R14	R15	Frea KHz	1	R14	R15	Fre	a KHz	ОК	Comment
Q16         P         ECW20P20         3         1850         330         267,93         452,78         190         190           Pair of transistors for op-amp power supply           Minimum Vds = 60V, same Vgs(th) range (4V)							8						<b>†</b>				0	†	T	1		J.,	
Pair of transistors for op-amp power supply  Minimum Vds = 60V, same Vgs(th) range (4V)						1	3				330		<b>†</b>	1,, 0						1			
Minimum Vds = 60V, same Vgs(th) range (4V)			•						•	•		,55	•				-	•	•	•			•
Minimum Vds = 60V, same Vgs(th) range (4V)											Pair	of transistor	s for	op-amp po	wer supply								
		Minimum Vds =	60V.	same Vg	s(th) range (4V	)							-										
			Τ				Gfs Sie	Ciss pF	R40	R41		Freq MHz		R40	R41	Freq MHz		R40	R41	Fre	eq MHz	OK	Comment

Original config

Config A1