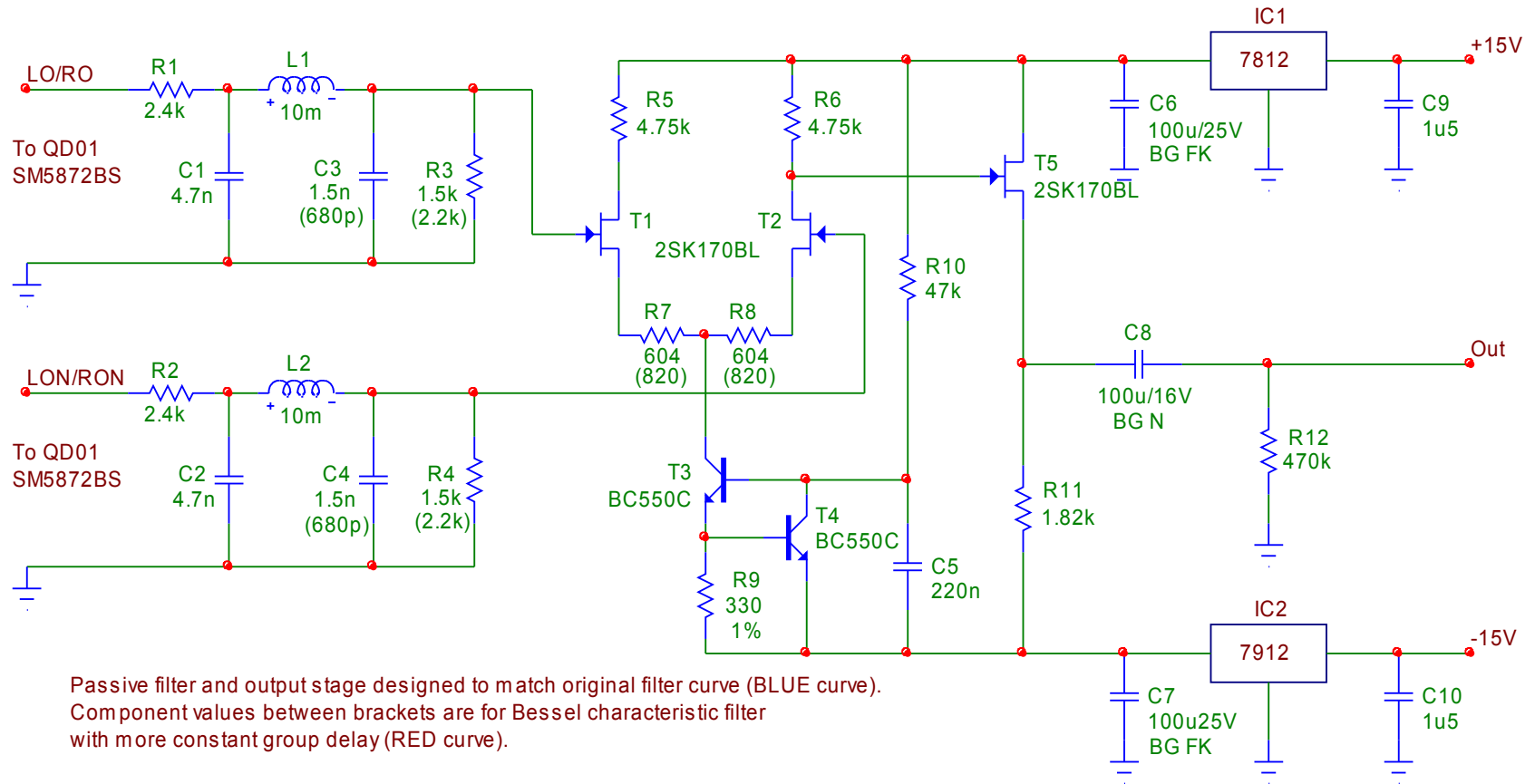


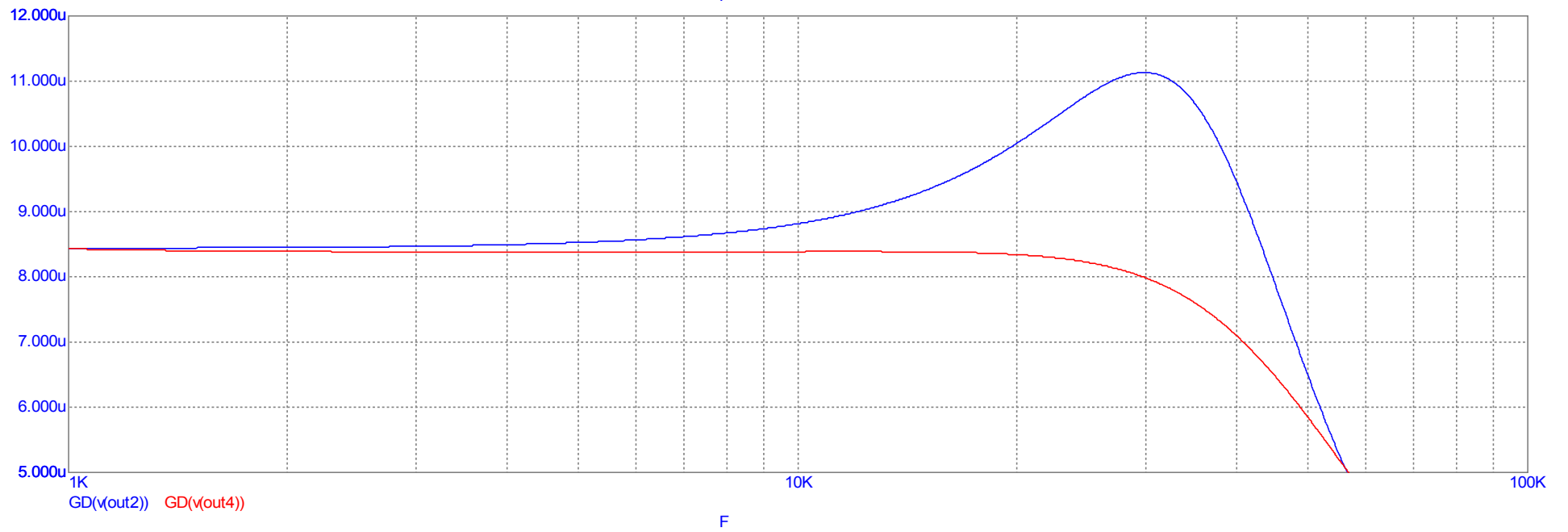
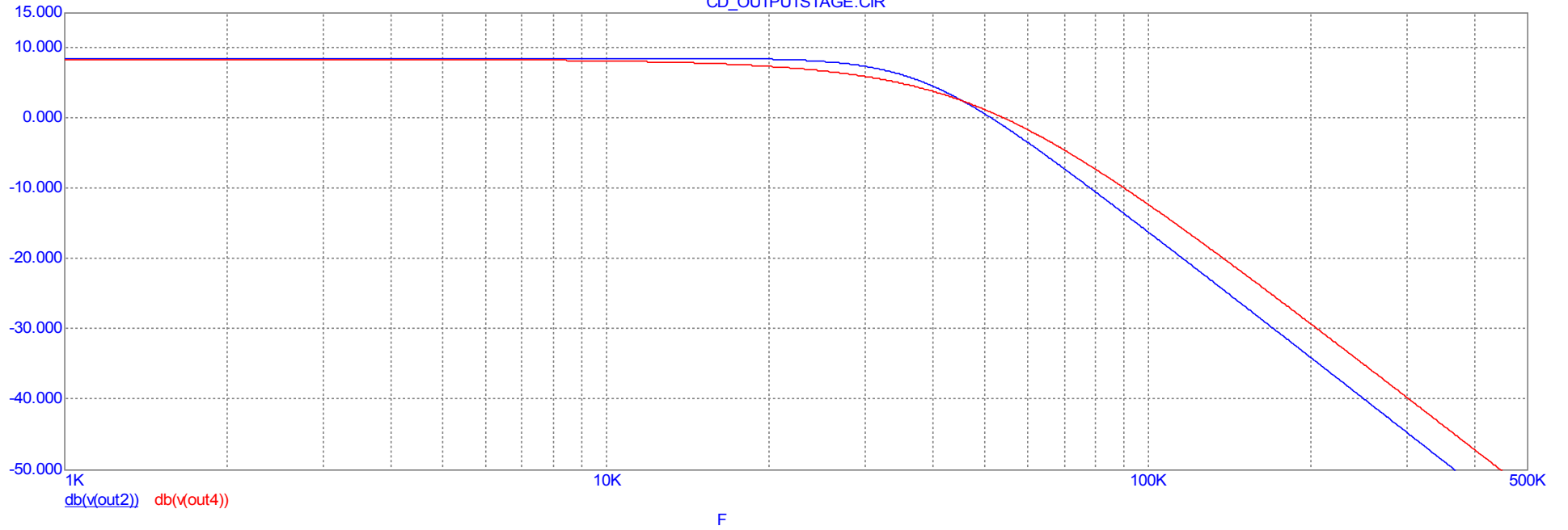
# CD53/57/63/67 Discrete Output Stage

(single channel, two sections needed for stereo)



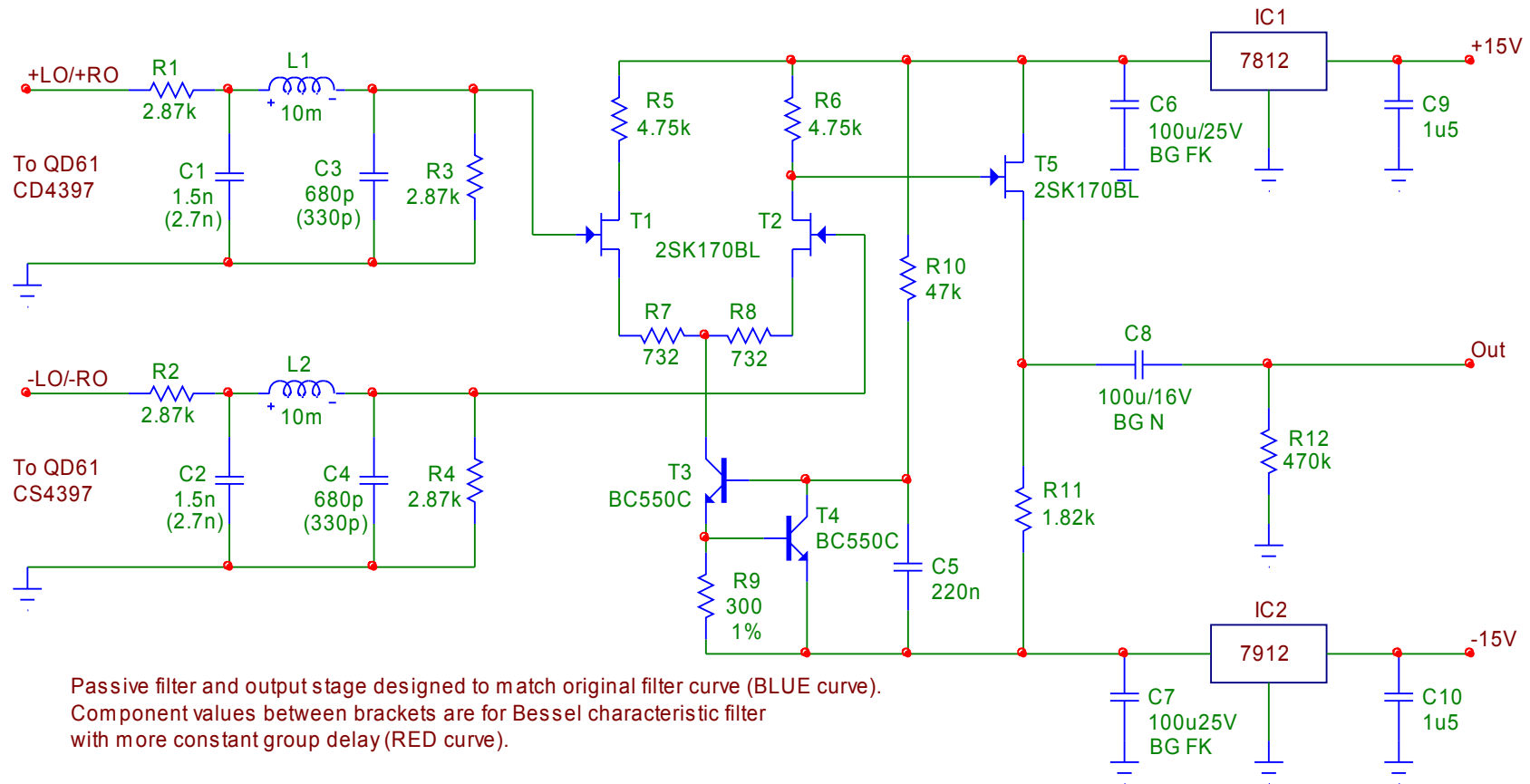
Passive filter and output stage designed to match original filter curve (BLUE curve).  
 Component values between brackets are for Bessel characteristic filter  
 with more constant group delay (RED curve).

CD\_OUTPUTSTAGE.CIR

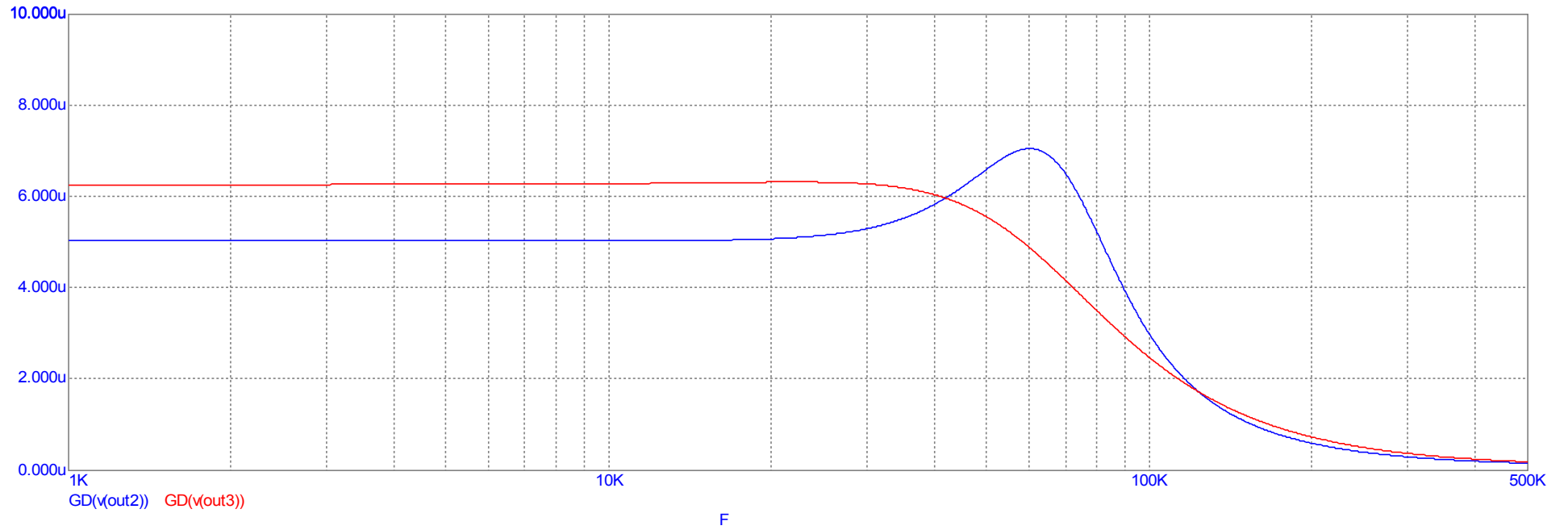
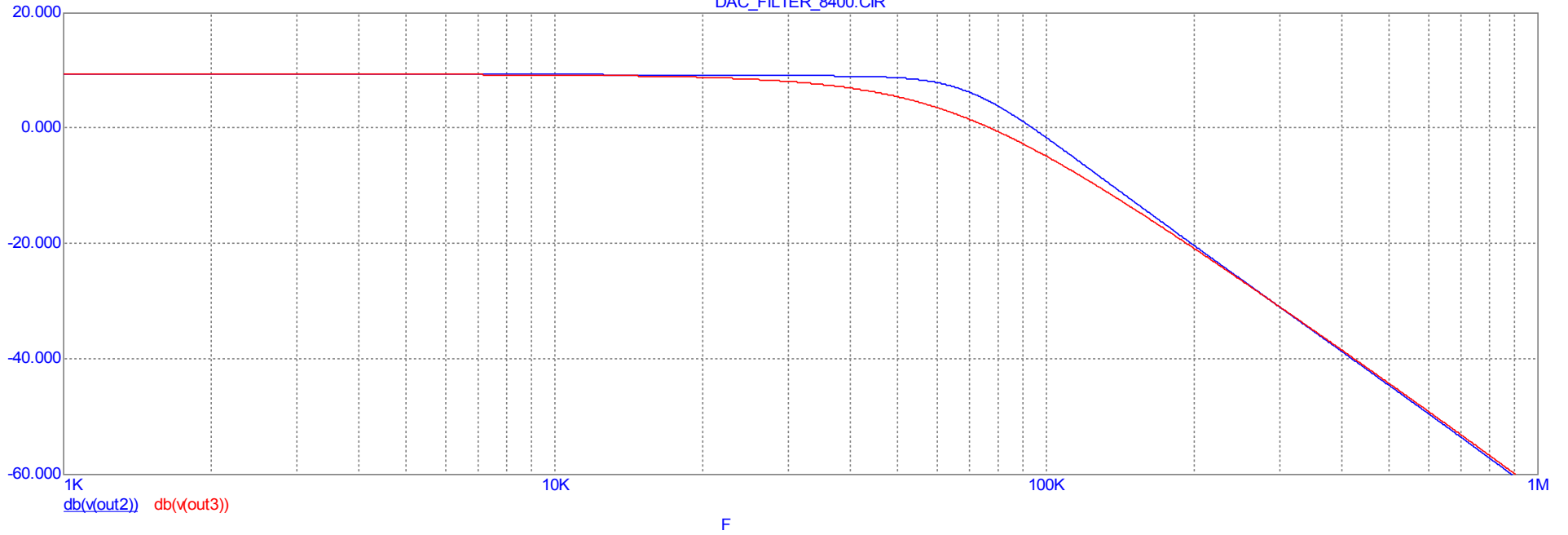


## SA8400 Discrete Output Stage

(single channel, two sections needed for stereo)

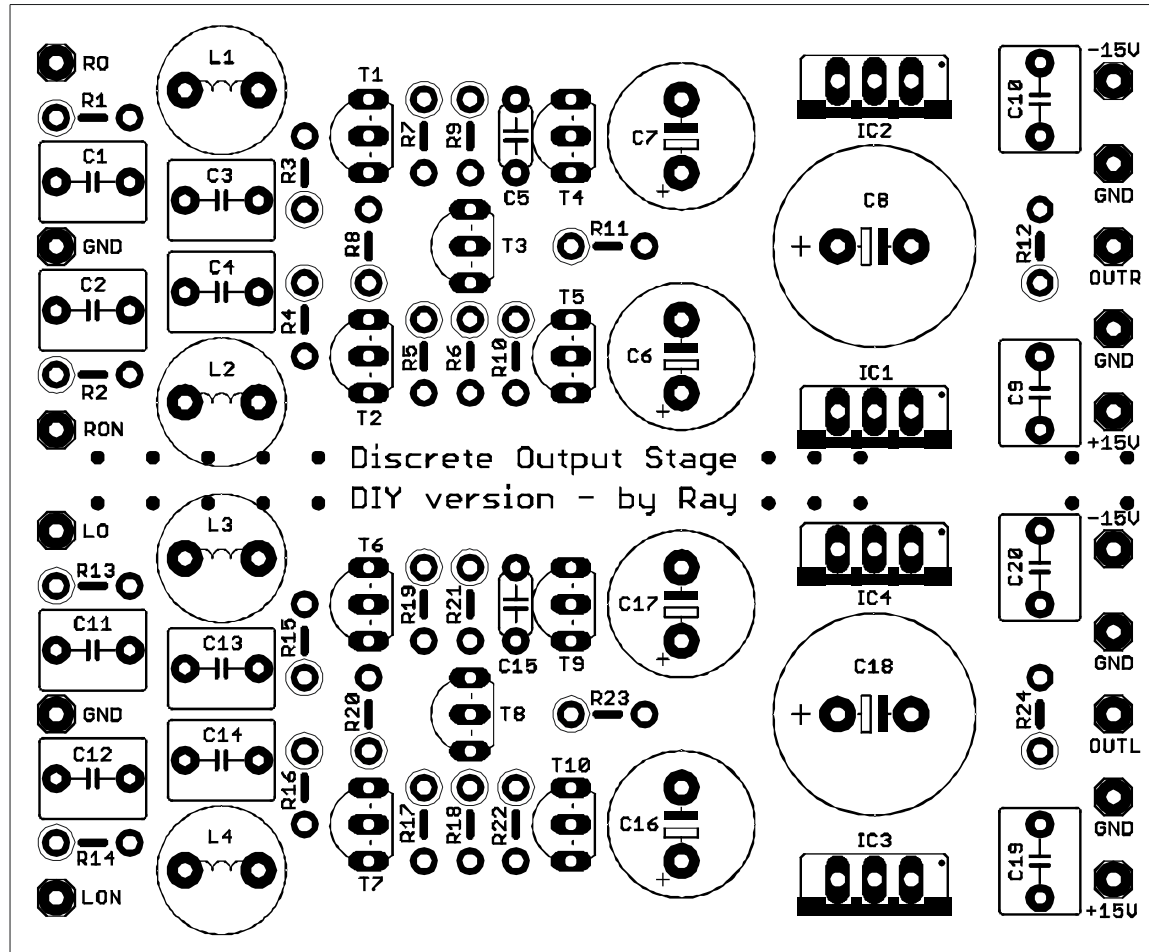


DAC\_FILTER\_8400.CIR



# Component placement

(stereo version PCB)



## Partslist for Discrete Output Stage PCB

Part right channel:	Part left channel:	Value:	Brand/Type:	Supplier:	Ordernr:
C5	C15	220n/63V	MKT	Farnell	100-6033/116-6039
C6, C7	C16, C17	100u/25V	Black Gate FK	Percy Audio	
C8	C18	100u/16V	Black Gate N	Percy Audio	
C9, C10	C19, C20	1u5	MKT	Farnell	116-6008/120-0763
IC1, IC2	IC3, IC4	insert your favorite	voltage regulator	-	
L1, L2	L3, L4	10mH	Panasonic	Farnell	809-4780
R5, R6	R17, R18	4k75	Holco H4	Percy Audio	
R9	R21	300R	Generic	Farnell	934-1684/946-7122
R10	R22	47k	Holco H4	Percy Audio	
R11	R23	1k82	Holco H4	Percy Audio	
R12	R24	470k	Holco H4	Percy Audio	
T1, T2	T6, T7	2SK170BL*	Toshiba	BMM Electronics	
T3, T4	T8, T9	BC550C	Generic	Farnell	101-7675/109-7289
T5	T10	2SK170BL#	Toshiba	BMM Electronics	
<b>SA8400</b>					
R1, R2	R13, R14	2k87	Holco H4	Percy Audio	
R3, R4	R15, R16	2k87	Holco H4	Percy Audio	
R7, R8	R19, R20	732R	Holco H4	Percy Audio	
C1, C2	C11, C12	1n5 (2n7)	LCR FSCEX	Farnell	952-0465 (952-0511)
C3, C4	C13, C14	680p (330p)	LCR FSCEX	Farnell	952-0821 (952-0759)
<b>CD63/67</b>					
R1, R2	R13, R14	2k4	Holco H4	Percy Audio	
R3, R4	R15, R16	1k5 (2k2)	Holco H4	Percy Audio	
R7, R8	R19, R20	604R (820R)	Holco H4	Percy Audio	
C1, C2	C11, C12	4n7	LCR FSCEX	Farnell	952-0562
C3, C4	C13, C14	1n5 (680p)	LCR FSCEX	Farnell	952-0465 (952-0821)

\* for transistor input section, BC550C can be used here

# for transistor output stage, BC517 can be used here (both options can be mixed, e.g. FET input and transistor output)

(values between brackets for Bessel filter characteristic)