



Bill Of Materials for DAC1.0 on Sep 05 2003

Item Reference Value	remarks

C1 0.1u	
C7 0.1u	
C12 8200p	
C16 5600p	
C17 5600p	
C19 5600p	
C20 0.1U	
C23 0.1u	
C27 470u	
C29 8.2n	
C30 68p	
C31 0.1u	
C34 0.1u	
C37 1800p	
C38 8200p	
C42 0.1u	
C46 0.1u	
C55 0.1u	
C56 0.1u	
C57 0.1u	

C59	0.1u	
C60	0.1u	
C61	0.1u	
C62	0.1u	
C63	0.1u	
C64	0.1u	
C65	0.1u	
C66	0.1u	
C71	0.1u	
C72	0.1u	
C73	0.1u	
C74	0.1u	
C75	0.1u	
C76	0.1u	
C130	1800p	
C180	5600p	
C14	1800p	
C15	1800p	
C4	2200u	
C5	470U	
C6	33u	reset RC timing
C8	10u	
C9	10u - 22u	
C11	470u	
C13	2200u	
C18	10u- 47u	
C21	10u	
C22	22u	reset RC timing
C26	10u	
C28	0.1u	

C32	10u	
C33	470u	
C35	470u	
C36	10u	
C40	2200u	
C41	2200u	
C43	10u	
C44	10u	
C45	10u	
C48	10u	
C49	10u	
C50	10u	
C51	10u	
C52	10u	
C53	10u	
C54	10u	
C58	10u	
C67	2200u	
C68	2200u	
C70	2200u	
C89	10u	
J2	connector	MCU interface
J1		optical and coax selection
	optical	optical input connector
D3	1n4148	
D4	1n4148	
U11	singal OP-amp	
U12	singal OP-amp	
U14	singal OP-amp	
U15	singal OP-amp	

U16	singal OP-amp	
U13	singal OP-amp	
U23	74hcu04	
OSCILLATOR		
S2	DIP SW	mode selection of DRE1703
F1-F12 FB		
R3	620ohm	
R4	620ohm	
R5	620ohm	
R6	620ohm	
R7	jumper	short R7 and R8 for normal operation
R8	jumper	short R7 and R8 for normal operation
R16	47kohm	reset RC timing
R29	1.2kohm	
R31	100kohm	
R32	620ohm	
R36	620ohm	
R38	75ohm	
R43	620ohm	
R54	620ohm	
R58	jumper	short R58 if pluse transformer is not used
R110	47kohm	reset RC timing
R30	jumper	short R1 for normal operation
R2	16Kohm	
R9	jumper	short R9 for normal operation
R33	620ohm	
R34	620ohm	
R35	620ohm	
R37	620ohm	
R41	620ohm	

R42	620ohm	
R44	620ohm	
R46	620ohm	
U1	PCM1738	
U2	DIR1703	
coax	coaxial input	
RCA1	Lout	
RCA8	Rout	
T1	pulse transformer	
H1- H7	inductor	
U9, 10, 19	LM1085-3.3V	
U8, 22	LM1085-5V	
U25	LM1085-12	
U26	LM2990-12	
C82-88	0.1u	
C77-80	4700u	
C25, 39, 47	4700u	
BRIDGE	diode X 6	
S1	switch	reset switch for pcm1738
C2	0.047u	
C81, 3	0.1u	can be omitted
R25, 26	4.7kohm	can be omitted
R27, 28	330ohm	can be omitted
Q1, 2	any NPN transistor	can be omitted
D1, 2	LED	can be omitted
Vr1	3K	can be omitted but short R1 for normal operation
Data	below 100ohm	prevent overshoot and undershoot
BitCLK	below 100ohm	prevent overshoot and undershoot
LRCLK	below 100ohm	prevent overshoot and undershoot
MCK	below 100ohm	prevent overshoot and undershoot