

U_POWER
POWER.SchDoc


U_CLOCK_GENERATOR
CLOCK_GENERATOR.SchDocU_CONNECTIONS
CONNECTIONS.SchDoc

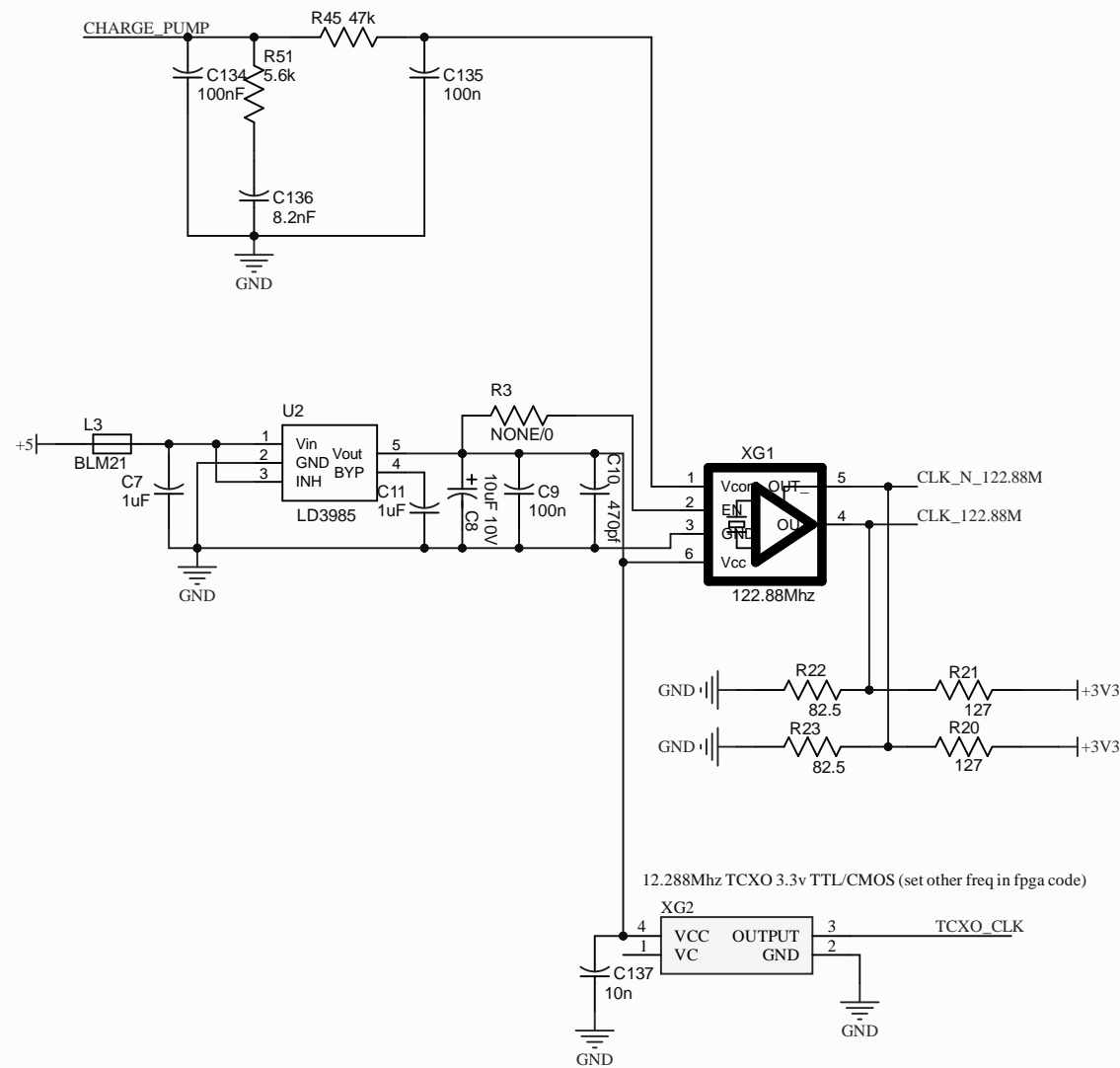
U_FPGA
FPGA.SchDoc

U_STM32
STM32.SchDocU_AUDIO CODEC
AUDIO CODEC.SchDoc

U_DAC
DAC.SchDoc

U_ADC
ADC.SchDoc

Title MOTHERBOARD			* * * * *	
Size: A4	Number:2	Revision:2.0		
Date: 21.06.2021	Time: 16:48:32	Sheet2 of 18		
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM_DESIGNER\MOTHERBOARD\MOTHERBOARD.SCHDOC				



Title **CLOCK_GENERATOR**

Size: A4

Number:6

Revision:2.0

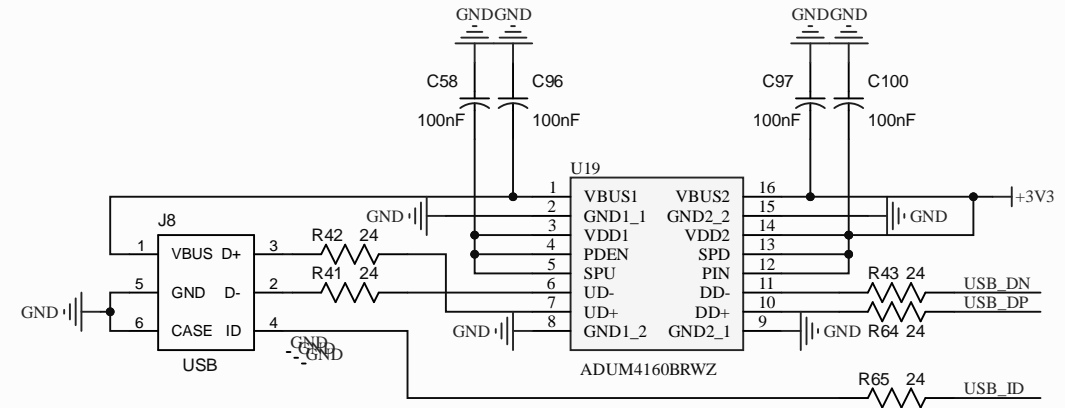
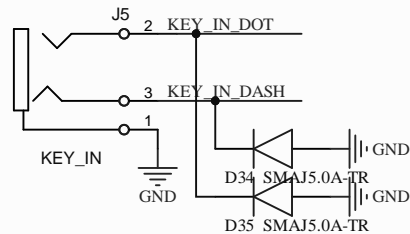
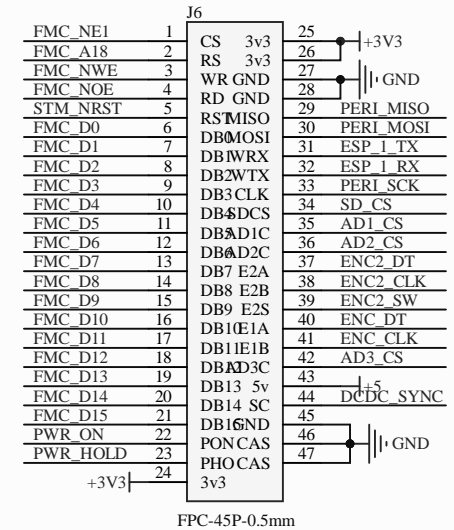
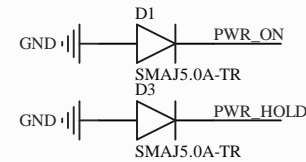
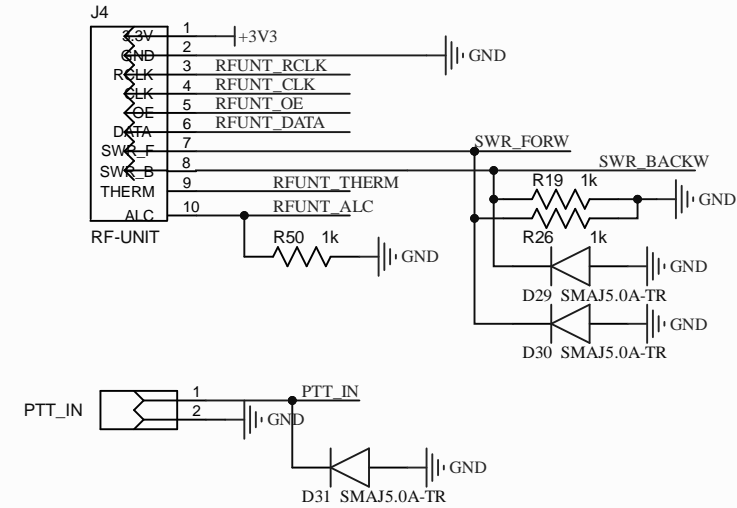
Date: 21.06.2021

Time: 16:48:32

Sheet 6 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM_DESIGNER\MOTHERBOARD\CLOCK_GENERATOR.SchDoc





Title **CONNECTIONS**

Size: A4

Number:7

Revision:2.0

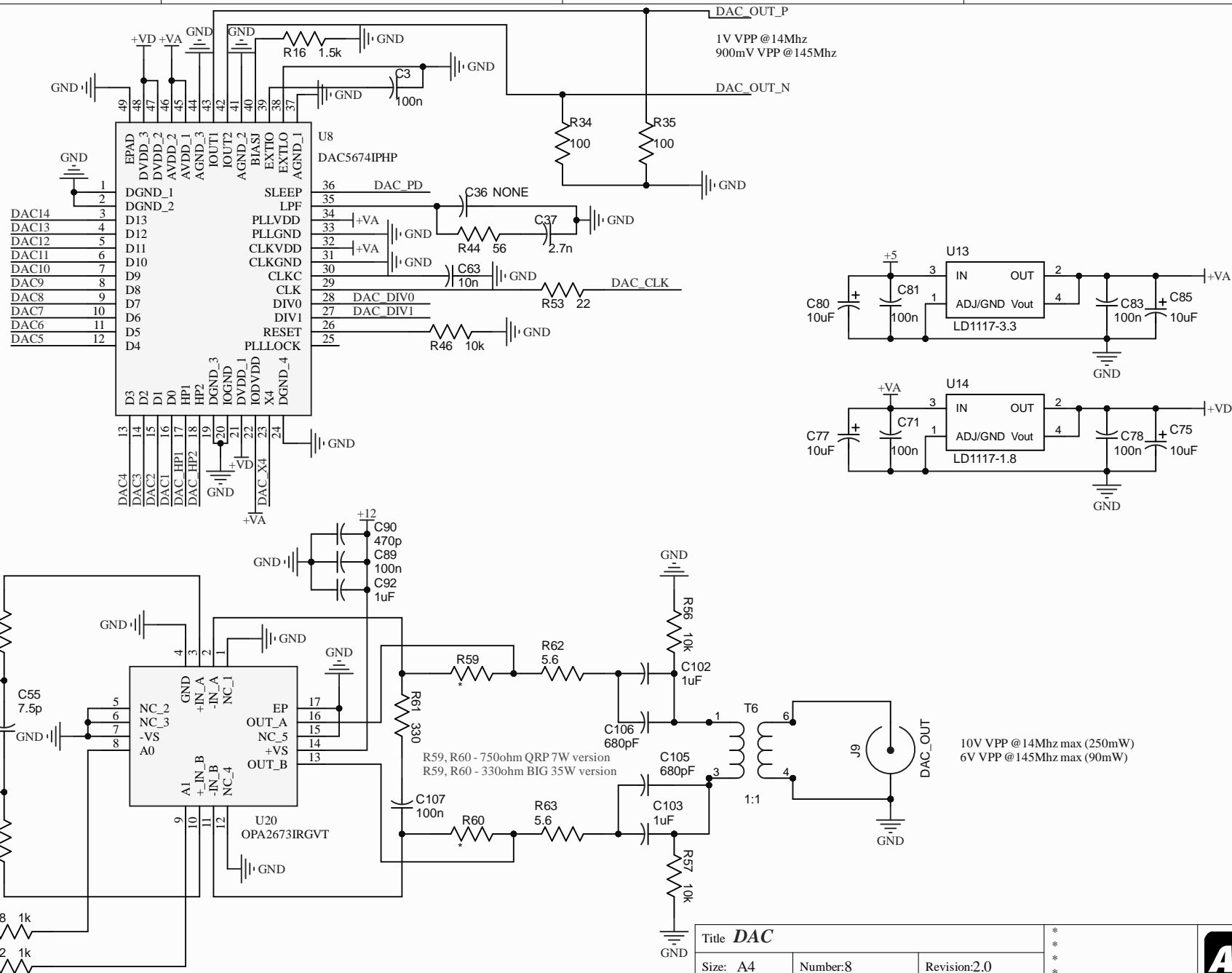
Date: 21.06.2021

Time: 16:48:32

Sheet 7 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM_DESIGNER\MOTHERBOARD\CONNECTIONS.SchDoc



Title **DAC**

Size: A4

Number:8

Revision:2.0

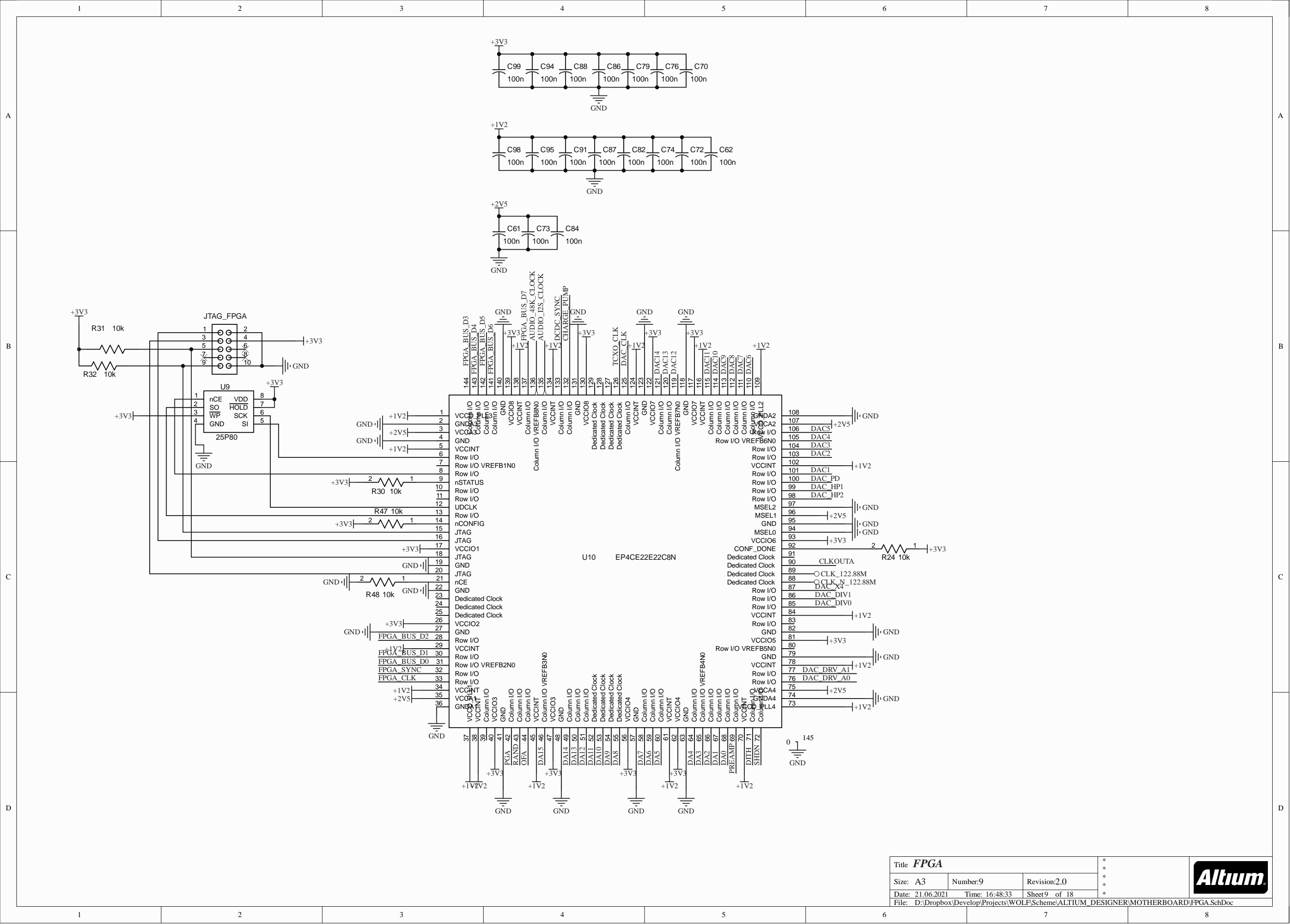
Date: 21.06.2021

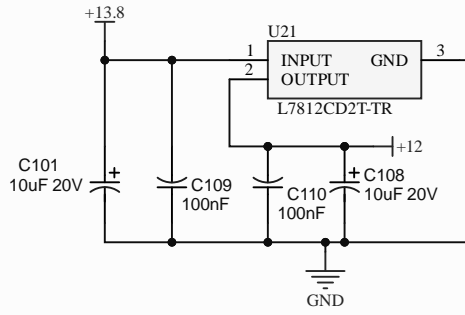
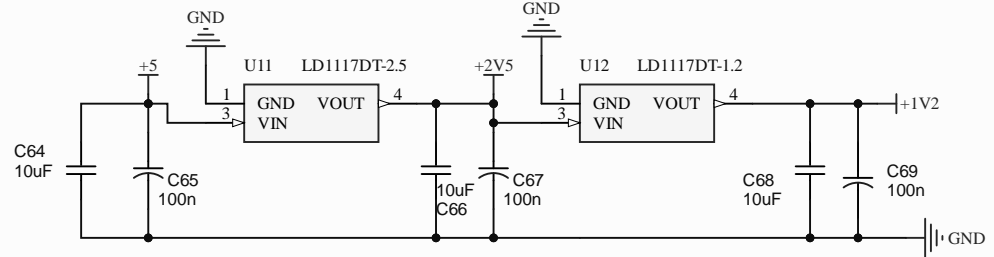
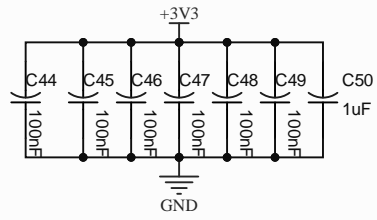
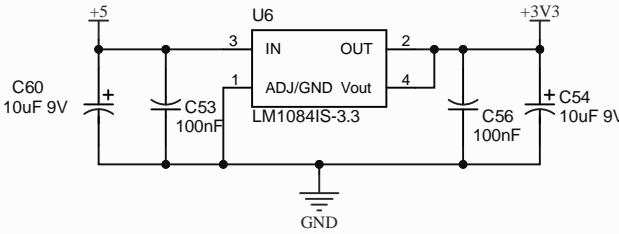
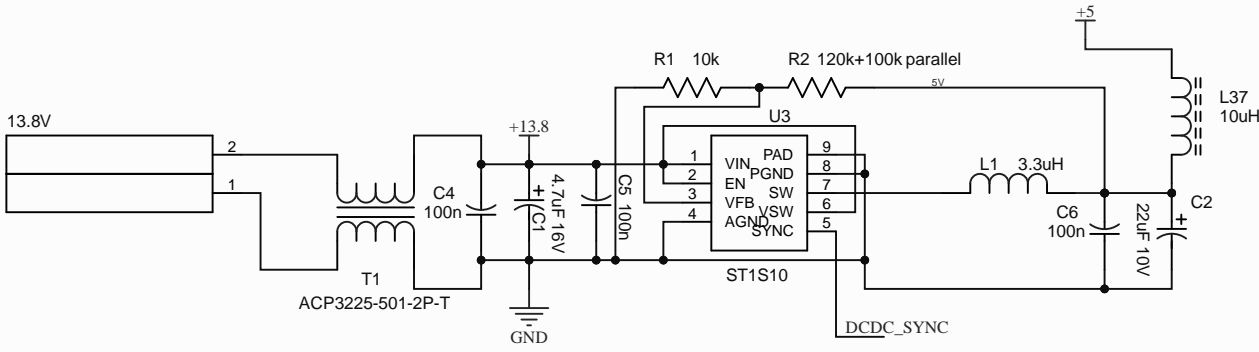
Time: 16:48:32

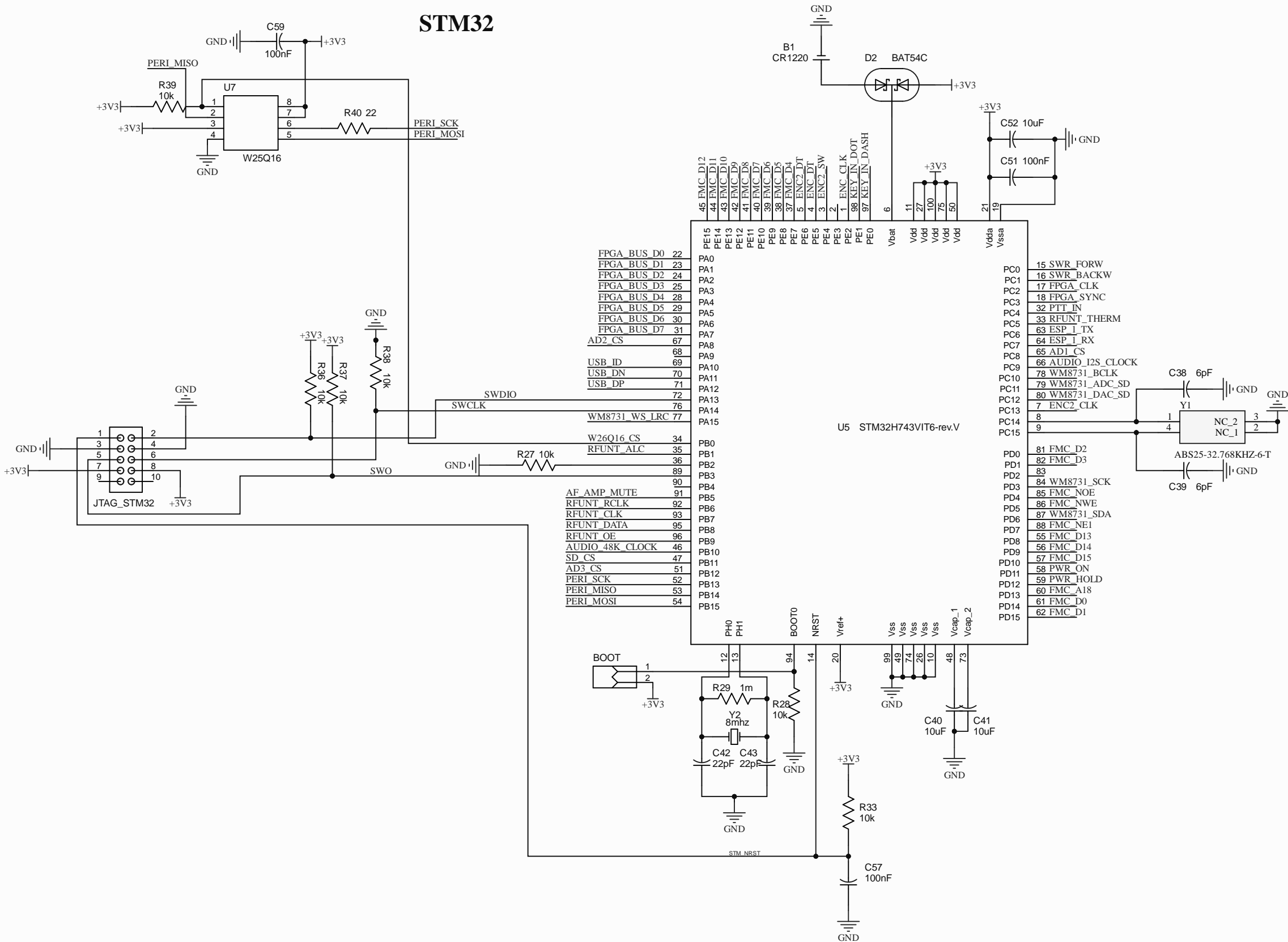
Sheet 8 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM_DESIGNER\MOTHERBOARD\DAC.SchDoc









Component	Description	Designator	Designator	Substr	Quantity	CIC Part #
IC1	74VHC04	13V	IC1	042	1	
IC2	74VHC04	13V	IC2	042	1	
IC3	74VHC04	13V	IC3	042	1	
IC4	74VHC04	13V	IC4	042	1	
IC5	74VHC04	13V	IC5	042	1	
IC6	74VHC04	13V	IC6	042	1	
IC7	74VHC04	13V	IC7	042	1	
IC8	74VHC04	13V	IC8	042	1	
IC9	74VHC04	13V	IC9	042	1	
IC10	CAP_0805	C3, C4, C5, C6, C9, C14, C19, C21, C23, C31, C41, C42, C46, C47, C49, C70, C71, C72, C73, C74, C75, C76, C78, C91, C92, C93, C94, C95, C96, C99, C100, C102, C103, C114, C115, C117, C118, C120, C123, C126, C128	CAP_0805	CAP_0805	48	
IC11	CAP_0805	C7, C11, C12, C13, C14, C19, C20, C21, C120, C123, C127	CAP_0805	CAP_0805	11	
IC12	CAP_0805	C1, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	5	
IC13	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	10	
IC14	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC15	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC16	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC17	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC18	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC19	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC20	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC21	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC22	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC23	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC24	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC25	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC26	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC27	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC28	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC29	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC30	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC31	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC32	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC33	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC34	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC35	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC36	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC37	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC38	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC39	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC40	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC41	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC42	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC43	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC44	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC45	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC46	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC47	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC48	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC49	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC50	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC51	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC52	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC53	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC54	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC55	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC56	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC57	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC58	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC59	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC60	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC61	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC62	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC63	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC64	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC65	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC66	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC67	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC68	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC69	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC70	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC71	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC72	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC73	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC74	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC75	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC76	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC77	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC78	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53, C43	CAP_0805	CAP_0805	2	
IC79	CAP_0805	C15, C16, C17, C18, C19, C20, C22, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C40, C43, C50, C52, C53				