

9

Figure 11.

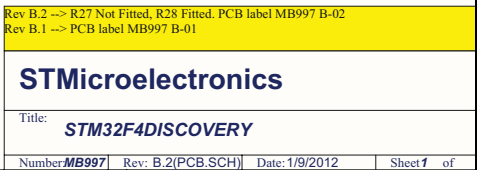
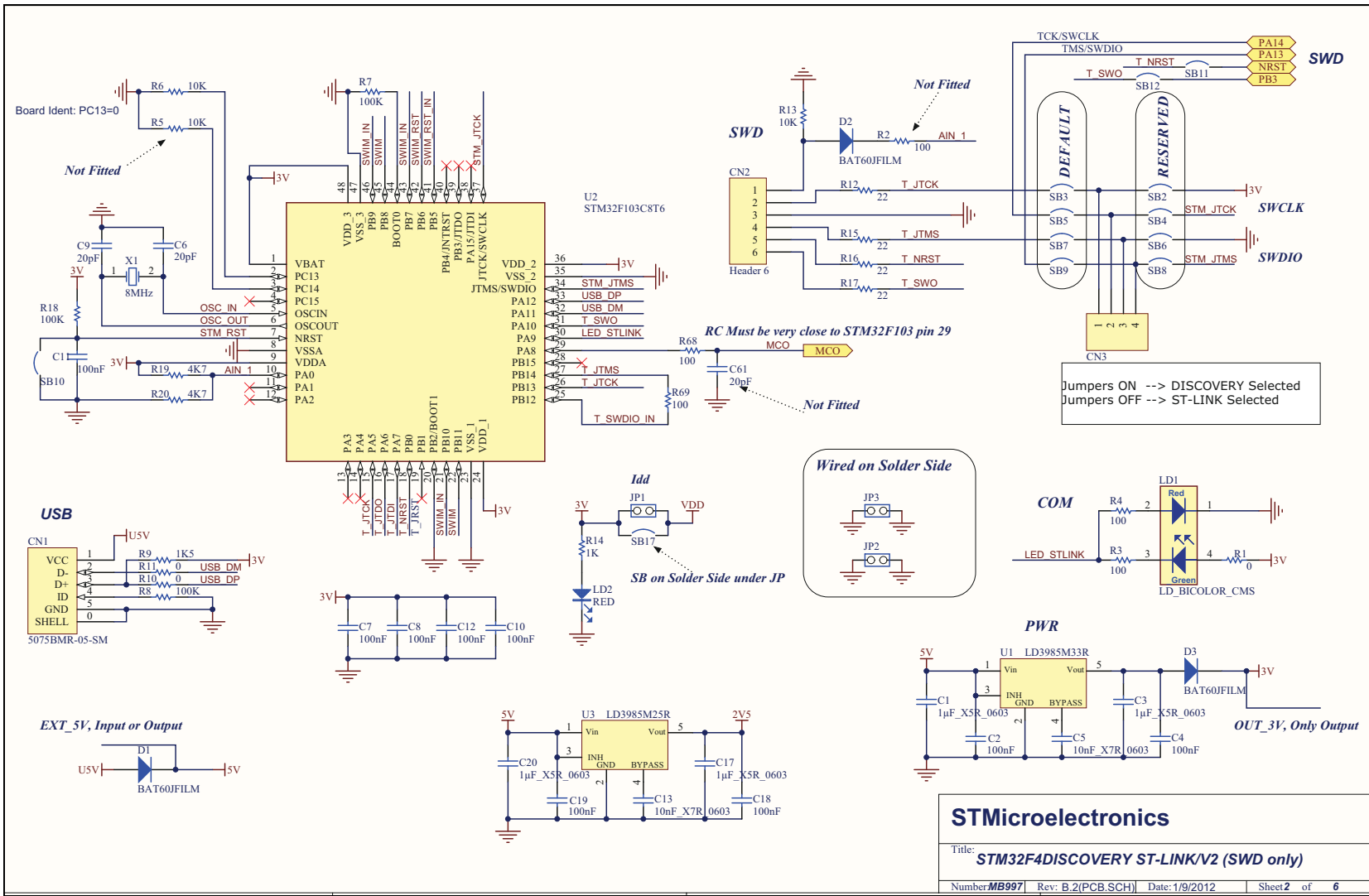


Figure 12. ST-LINK/V2 (SWD only)



U4A

PA0	PA0	23	PE0	97	PE0	PE0
PA1	PA1	24	PE1	98	PE1	PE1
PA2	PA2	25	PE2	1	PE2	PE2
PA3	PA3	26	PE3	2	PE3	PE3
PA4	PA4	29	PE4	3	PE4	PE4
PA5	PA5	30	PE5	4	PE5	PE5
PA6	PA6	31	PE6	5	PE6	PE6
PA7	PA7	32	PE7	38	PE7	PE7
PA8	PA8	67	PE8	39	PE8	PE8
PA9	PA9	68	PE9	40	PE9	PE9
PA10	PA10	69	PE10	41	PE10	PE10
PA11	PA11	70	PE11	42	PE11	PE11
PA12	PA12	71	PE12	43	PE12	PE12
PA13	PA13	72	PE13	44	PE13	PE13
PA14	PA14	76	PE14	45	PE14	PE14
PA15	PA15	77	PE15	46	PE15	PE15

U4B

PB0	PB0	35	PD0	81	PD0	PD0
PB1	PB1	36	PD1	82	PD1	PD1
PB2	PB2	37	PD2	83	PD2	PD2
PB3	PB3	89	PD3	84	PD3	PD3
PB4	PB4	90	PD4	85	PD4	PD4
PB5	PB5	91	PD5	86	PD5	PD5
PB6	PB6	92	PD6	87	PD6	PD6
PB7	PB7	93	PD7	88	PD7	PD7
PB8	PB8	95	PD8	55	PD8	PD8
PB9	PB9	96	PD9	56	PD9	PD9
PB10	PB10	47	PD10	57	PD10	PD10
PB11	PB11	48	PD11	58	PD11	PD11
PB12	PB12	51	PD12	59	PD12	PD12
PB13	PB13	52	PD13	60	PD13	PD13
PB14	PB14	53	PD14	61	PD14	PD14
PB15	PB15	54	PD15	62	PD15	PD15

STM32F407VGT6

PC0	PC0	15	PDR_ON	99		
PC1	PC1	16				
PC2	PC2	17				
PC3	PC3	18	PH0	12		
PC4	PC4	33	PH1	13		
PC5	PC5	34				
PC6	PC6	63				
PC7	PC7	64	PC14	8		
PC8	PC8	65	PC15	9		
PC9	PC9	66				
PC10	PC10	78				
PC11	PC11	79	NRST	14		
PC12	PC12	80				
PC13	PC13	7	BOOT0	94		

STM32F407VGT6

VDD5	VSS5	10				
VDD12	VSS4	27				
VDD4	VSS2	74				
VDD1						
VDD2						
VDD3						
VREF+	VSSA	20				
VDDA	VCAP1	49				
VBAT	VCAP2	73				

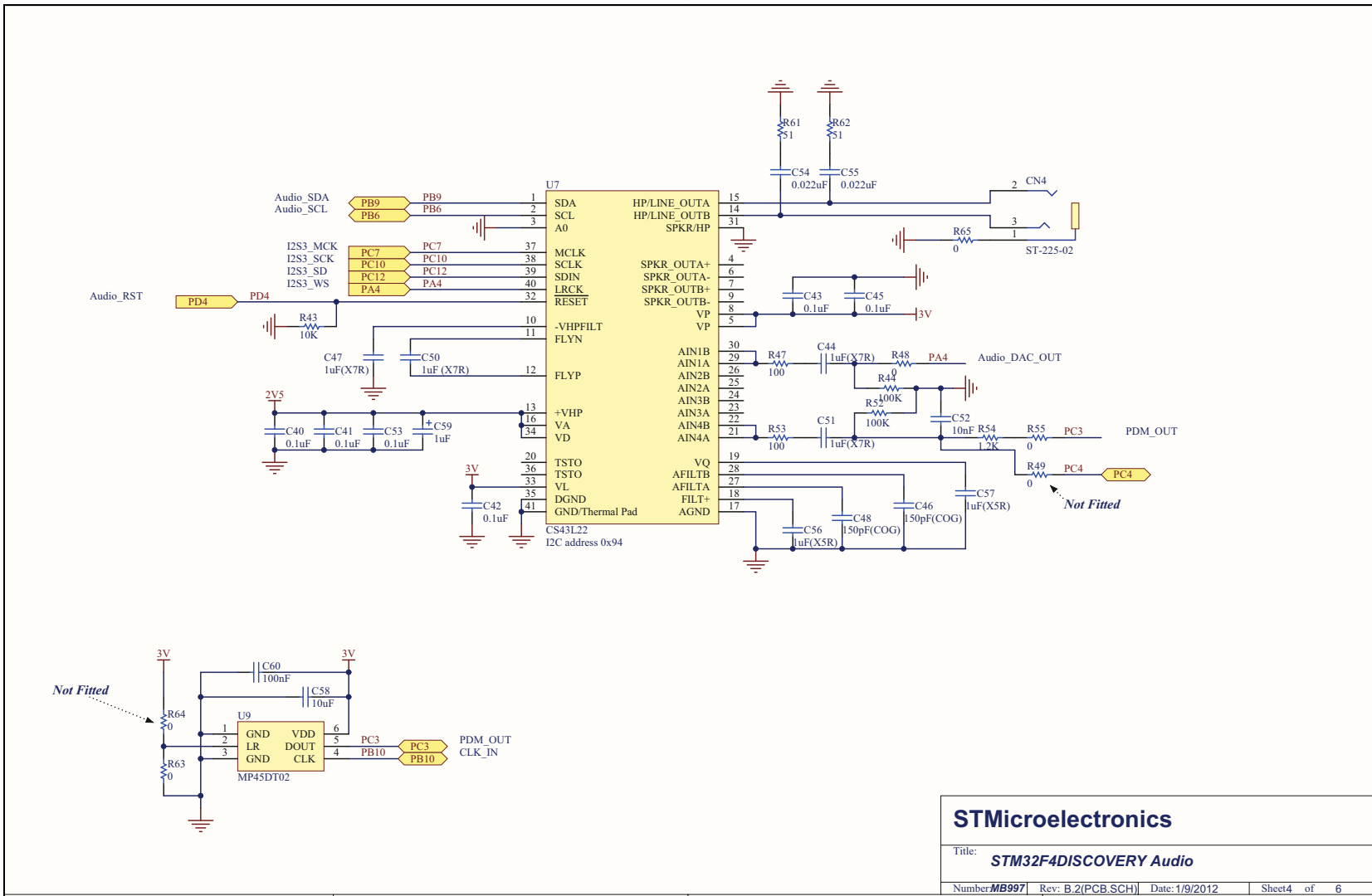
STM32F407VGT6

C23	1uF					
C21	100nF					
C22	1uF					
C25	100nF					
C30	100nF					
C24	100nF					
C32	100nF					
C35	100nF					
C34	100nF					
C29	100nF					
C28	1uF					
C36	2.2uF					
C33	2.2uF					

STM32F4DISCOVERY MCU

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Figure 14. Audio



The schematic diagram illustrates the USB_OTG_FS circuit for the STM32F4DISCOVERY board. It shows the connection of the STM32F4DISCOVERY board to a USB Micro-AB receptacle. Key components include the STMPS2141STR voltage regulator, the EMIF02-USB03F2 USB controller, and various passive components like resistors (R45, R46, R50, R51, R56, R57, R58, R60, R66, R67) and capacitors (C49). The circuit is powered by a 3V supply and includes status LEDs (LD7, LD8) and a fault indicator (FAULT). The USB receptacle is labeled CN5 and includes pins for VBUS, DM, DP, ID, GND, and a Shield. The STM32F4DISCOVERY board is labeled U6 and U8.

Figure 16. Peripherals

