

1

2

3

4

U8A

PA0	PA0	14
PA1	PA1	15
PA2	PA2	16
PA3	PA3	17
PA4	PA4	20
PA5	PA5	21
PA6	PA6	22
PA7	PA7	23
PA8	PA8	41
PA9	PA9	42
PA10	PA10	43
PA11	PA11	44
PA12	PA12	45
PA13	PA13	46
PA14	PA14	49
PA15	PA15	50

PA0/WKUP1/USART2_CTS/ADC_IN0/TIM2_CH1_ETR/COMP1_INP
PA1/USART2_RTS/ADC_IN1/TIM2_CH2/LCD_SEG0/COMP1_INP
PA2/USART2_TX/ADC_IN2/TIM2_CH3/TIM9_CH1/LCD_SEG1/COMP1_INP
PA3/USART2_RX/ADC_IN3/TIM2_CH4/TIM9_CH2/LCD_SEG2/COMP1_INP
PA4/SPI1_NSS/USART2_CK/ADC_IN4/DAC_OUT1/COMP1_INP
PA5/SPI1_SCK/ADC_IN5/DAC_OUT2/TIM2_CH1_ETR/COMP1_INP
PA6/SPI1_MISO/ADC_IN6/TIM3_CH1/TIM1_BKIN/LCD_SEG3/TIM10_CH1/COMP1_INP
PA7/SPI1_MOSI/ADC_IN7/TIM3_CH2/TIM1_CH1N/LCD_SEG4/TIM11_CH1/COMP1_INP
PA8/USART1_CK/MCO/LCD_COM0
PA9/USART1_TX/LCD_COM1
PA10/USART1_RX/LCD_COM2
PA11/USART1_CTS/USBDM/SPI1_MISO
PA12/USART1_RTS/USBDM/SPI1_MOSI
PA13/SWDIO
PA14/SWCLK
PA15/TIM2_CH1_ETR/PA15/SPI1_NSS/LCD_SEG17

PB0	PB0	26
PB1	PB1	27
PB2	PB2	28
PB3	PB3	55
PB4	PB4	56
PB5	PB5	57
PB6	PB6	58
PB7	PB7	59
PB8	PB8	61
PB9	PB9	62
PB10	PB10	29
PB11	PB11	30
PB12	PB12	33
PB13	PB13	34
PB14	PB14	35
PB15	PB15	36

PB0/ADC_IN8/TIM3_CH3/LCD_SEG5/COMP1_INP/VREF_OUT
PB1/ADC_IN9/TIM3_CH4/LCD_SEG6/COMP1_INP/VREF_OUT
PB2/BOOT1
PB3/TIM2_CH2/PB3/TRACESW/SPI1_SCK/COMP2_INM/LCD_SEG7
PB4/TIM3_CH1/PB4/SPI1_MISO/COMP2_INP/LCD_SEG8
PB5/I2C1_SMBAL/TIM3_CH2/SPI1_MOSI/COMP2_INP/LCD_SEG9
PB6/I2C1_SCL/TIM4_CH1/USART1_TX
PB7/I2C1_SDA/TIM4_CH2/USART1_RX/PVD_IN
PB8/TIM4_CH3/I2C1_SCL/LCD_SEG16/TIM10_CH1
PB9/TIM4_CH4/I2C1_SDA/LCD_COM3/TIM11_CH1
PB10/I2C2_SCL/USART3_TX/TIM2_CH3/LCD_SEG10
PB11/I2C2_SDA/USART3_RX/TIM2_CH4/LCD_SEG11
PB12/SPI2_NSS/I2C2_SMBAL/USART3_CK/LCD_SEG12/ADC_IN18/COMP1_INP/TIM10_CH1
PB13/SPI2_SCK/USART3_CTS/LCD_SEG13/ADC_IN19/COMP1_INP/TIM9_CH1
PB14/SPI2_MISO/USART3_RTS/LCD_SEG14/ADC_IN20/COMP1_INP/TIM9_CH2
PB15/SPI2_MOSI/TIM1_CH3N/LCD_SEG15/ADC_IN21/COMP1_INP/TIM11_CH1/RTC_50_60Hz

STM32L152RCT6

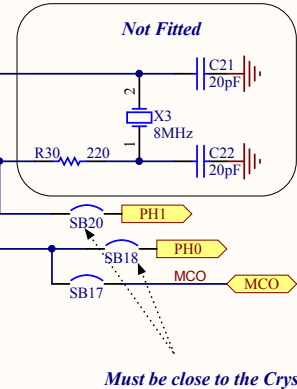
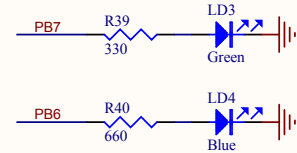
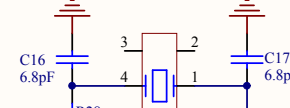
PD2/TIM3_ETR/LCD_SEG31/LCD_SEG43/LCD_COM7

PH0-OSC_IN

PH1-OSC_OUT

NRST

BOOT0

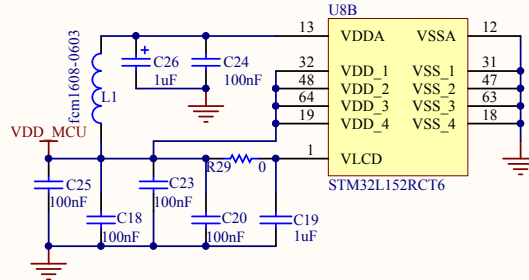
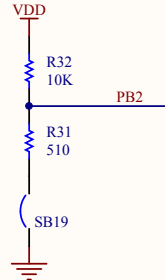
X2
MC306-G-06Q-32.768 (manufacturer JFVNY)

BOOT0

VDD

SB3

BOOT1



STMicroelectronics

Title: **STM32L1-DISCOVERY MCU**Number: **MB963** Rev: C.1(PCB.SCH) Date: 2/15/2013 Sheet **3** of **6**

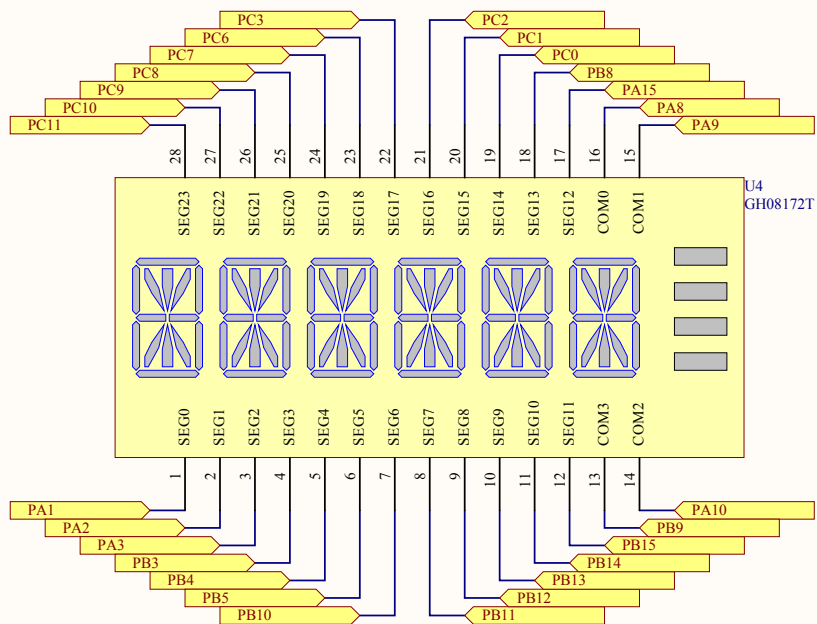
1

2

3

4

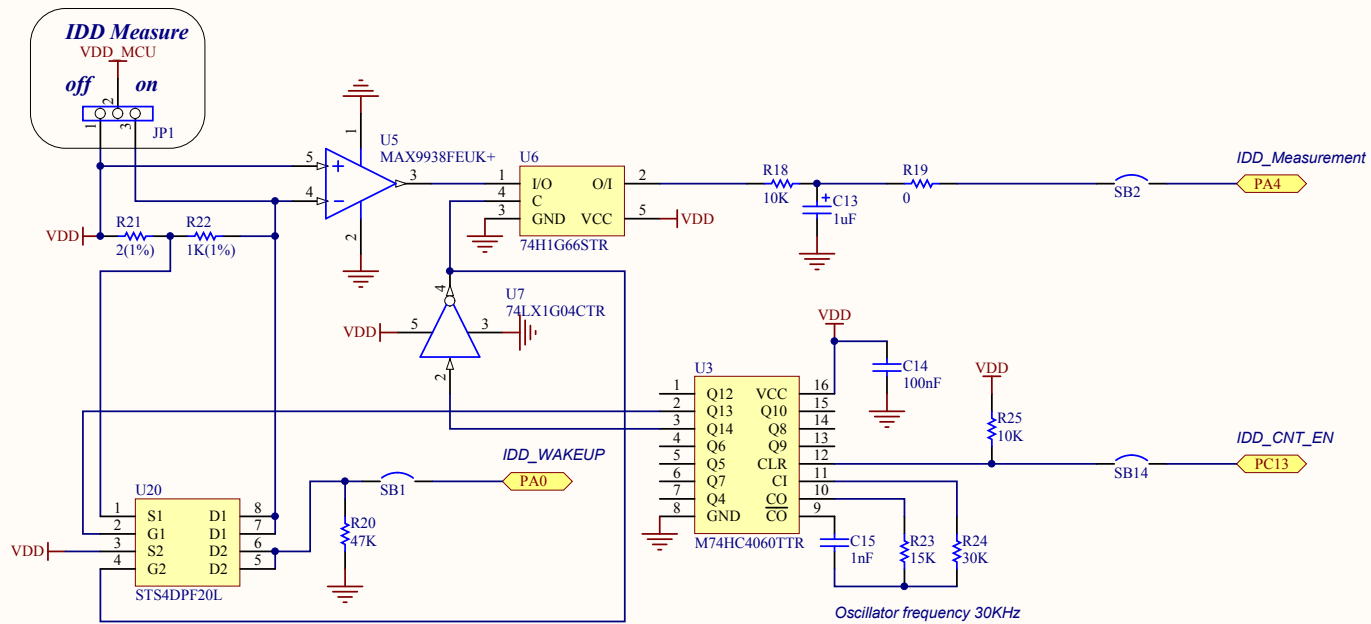
LCD



STMicroelectronics

Title: **STM32L1-DISCOVERY LCD**

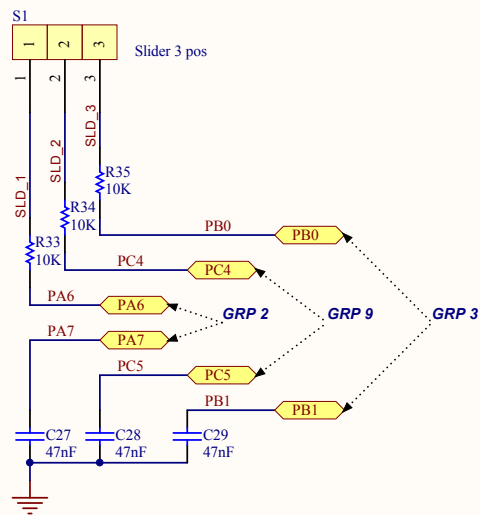
Number: **MB963** | Rev: C.1(PCB.SCH) | Date: 2/12/2013 | Sheet **4** of **6**



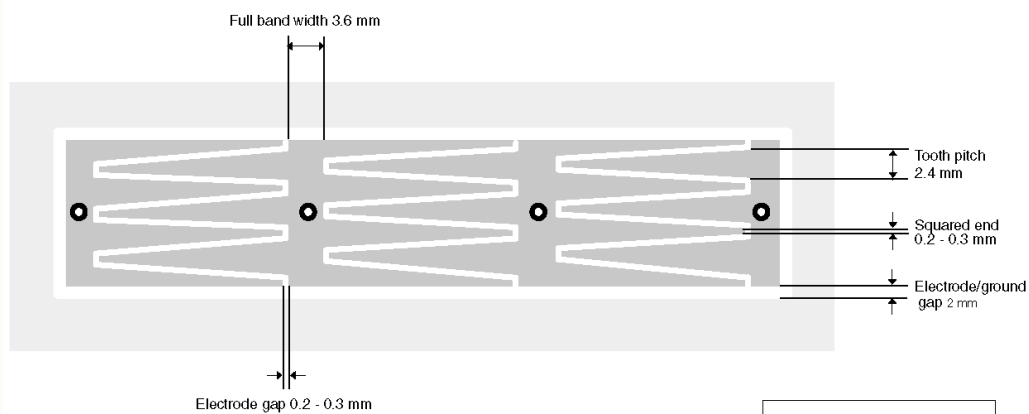
STMicroelectronics

Title: **STM32L1-DISCOVERY IDD_Measurement**

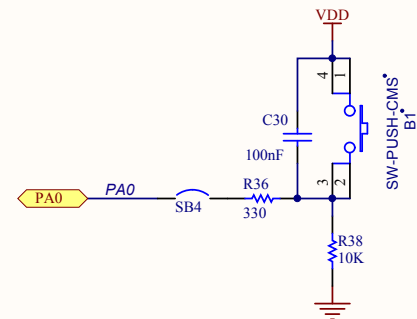
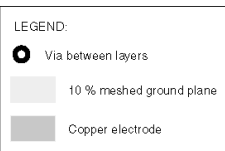
Number: **MB963** | Rev: C.1(PCB.SCH) | Date: 2/12/2013 | Sheet **5** of **6**



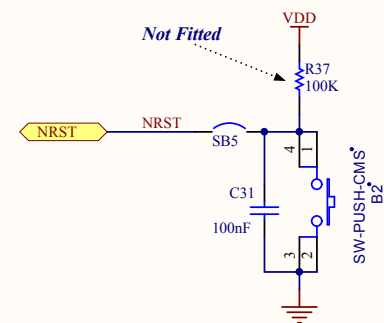
SLIDER 3 Positions



Interlaced slider with three elements (up to 60 mm long)



USER & WAKE-UP Button



RESET Button

STMicroelectronics

Title: **STM32L1-DISCOVERY Linear Sensor and Push Button**

Number: **MB963** Rev: C.1(PCB.SCH) Date: 2/12/2013 Sheet **6** of **6**