FIVE FINGER **Debug Connector** System Reset +5V LED +5V CON J2 53047-0210 +5.0V_____[1]_ □+3.3V +3.3V [1] _[1]______+5.0V D4 BZT52C5V1S/ R21 10K J9 HEADER_2.0MM_2X20 U6 ₹24 /RESET VDD SYS_SWDIO [1] GND SYS_SWCLK [1] SW1 ADCA2= ADCA4= GND HEADER_2.54MM_2X5 C1 C2 C6 TPS3801L30 PULLUP2= +3.3V [1] C13 10uF C-1608 **MCU Schematic** C14 0.1uF C17 0.1uF C18 0.1uF C19 0.1uF J10 HEADER_2.0MM_2X20 $\begin{array}{c|c} & C10 \\ \hline & 0.1 \text{uF} \end{array} \qquad \begin{array}{c|c} & C11 \\ \hline & 0.1 \text{uF} \end{array}$ PULSE_OUT2 [1] R19 M 100 U1 STM32F070RBT6 VDD PC13 PC14-OSC32_IN PC15-OSC32_OUT PF0-OSC_IN PF1-OSC_OUT NRST VDD -VSS -PB9 -PB8 -BOOT0 -GPIO_EXTI14 GPIO_EXTI14 ⇒ PLA_ON_LED ⇒ PWR_LED GPIO_EXTI12= PULSE_OUT1= 13 15 17 19 21 23 25 27 29 31 33 35 37 ⊒PULLUP2 ⊒PULLUP1 ABS07-32.768KHZ □ USART1_TX ⇒ USART1_RX PC0 PC1 PC2 PC3 VSSA VDDA PA0 PA1 PA2 PA3 VSS VDD PB5 PB4 PB3 PD2 PC12 PC11 PC10 PA15 PA14 VDD >[1] >[1] -[1] ADCA2 R13 0 R14 W 0 R15 W 4.7K HW_ID@__ HW_ID1 _[1] SYS_SWCLK R22 \(\) R23 \(\) NC \(\) NC \(\) VSS PA13 ABM3-8.000MHZ-D2Y-T R16 ≥ R17 ≥ R18 10K ≥ NC ≥ NC PA4 PA5 PA6 PA7 PC4 PC5 PB0 PB1 PB2 PB10 PB11 VSS VDD PA12 - PA11 - PA10 - PA9 - PA8 - PC9 - PC6 - PB15 - PB14 - PB13 - PB12 - PB12 ⇒PULSE_OUT2 ⇒USART1_RX ⇒USART1_TX ⇒PULSE_OUT1 G27 === GPIO_EXTI14 GPIO_EXTI13 GPIO_EXTI12 +3.3V System Power U2 LM3671MF-3.3 LQM2HPZ2R2MG0 C16 10uF C-1608 ₹ R6 10K **RS-232 LED** Power On LED Plasma On LED TX RX+3.3V [1] +3.3V [1] +3.3V [1] +3.3V [1] 470 R3 \$54 [DRAWN By: Arvid Joung Company Name: CHECKED By: Model Name: Plasma LF MCU V1.0 USART1_TX [1] USART1_RX Arvid Joung PLA_ON_LED [1] PWR_LED [1] DATE: Sheet Name: MCU 2018-04-09 Revision: 1/1 **HW Team**