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Eeschema 7.0.2

Component Count:59

Ref	Qnty	Value	Part	Footprint
C1, C2	2	22uF	Device:C_Polarized_US	Capacitor_SMD:C_0603_1608Metric
C3	1	10nF	Device:C	Capacitor_SMD:C_0603_1608Metric
C4, C11	2	1uF	Device:C	Capacitor_SMD:C_0603_1608Metric
C5	1	4.7uF	Device:C	Capacitor_SMD:C_0603_1608Metric
C6, C7, C8, C9, C10, C12	6	100nF	Device:C	Capacitor_SMD:C_0603_1608Metric
C13, C14	2	26pF	Device:C	Capacitor_SMD:C_0603_1608Metric
C15	1	1uF	Device:C_Polarized	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder
C16	1	330nF	Device:C	Capacitor_SMD:C_0603_1608Metric
C17	1	390nF	Device:C	Capacitor_SMD:C_0603_1608Metric
C18	1	0.1uF	Device:C	Capacitor_SMD:C_0603_1608Metric
D1, D2	2	SM6T6V8A	Diode:SM6T6V8A	Diode_SMD:D_0603_1608Metric_Pad1.05x0.95mm_HandSolder
D3	1	3.3V	Device:D_Zener	Diode_SMD:D_0603_1608Metric
D4	1	LED	Device:LED	LED_SMD:LED_2010_5025Metric
FB1, FB3	2	New_Library:FerriteBead	New_Library:FerriteBead	Inductor_SMD:L_0603_1608Metric_Pad1.05x0.95mm_HandSolder
FB2	1	FerriteBead	New_Library:FerriteBead	Inductor_SMD:L_0603_1608Metric_Pad1.05x0.95mm_HandSolder
H1, H3, H4, H5, H6, H7	6	MountingHole_Pad	Mechanical:MountingHole_Pad	MountingHole:MountingHole_2.2mm_M2_DIN965_Pad
H2	1	~	Mechanical:MountingHole_Pad	MountingHole:MountingHole_2.2mm_M2_DIN965_Pad
J1	1	Conn_01x04	Connector_Generic:Conn_01x04	Connector_PinHeader_2.00mm:PinHeader_1x04_P2.00mm_Vertical_SMD_Pin1Left
J2	1	USB_B_Micro	Connector:USB_B_Micro	Connector_USB:USB_Micro-B_Wuerth_629105150521
J3	1	Eletrode 1	Connector:Conn_01x01_Pin	Connector_PinHeader_2.54mm:PinHeader_1x01_P2.54mm_Vertical
J4	1	Eletrode 2	Connector:Conn_01x01_Pin	Connector_PinHeader_2.54mm:PinHeader_1x01_P2.54mm_Vertical
J5	1	Conn_01x09	Connector_Generic:Conn_01x09	Connector_PinSocket_2.54mm:PinSocket_1x09_P2.54mm_Vertical_SMD_Pin1Right
R1, R2, R3, R4	4	10k	Device:R	Resistor_SMD:R_0603_1608Metric
R5	1	100k	Device:R	Resistor_SMD:R_0603_1608Metric
R6	1	1K	Device:R	Resistor_SMD:R_0603_1608Metric
R7, R8, R9	3	1k	Device:R	Resistor_SMD:R_0603_1608Metric
R10	1	100	Device:R	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
Rg1	1	6k5	Device:R	Resistor_SMD:R_0603_1608Metric
SW1	1	SW_Push	Switch:SW_Push	Button_Switch_SMD:SW_SPST_B3U-1000P-B
SW2	1	SW_SPDT	Switch:SW_SPDT	Button_Switch_SMD:SW_DIP_SPSTx01_Slide_9.78x4.72mm_W8.61mm_P2.54mm
U1	1	STM32F446RET6TR	MCU_ST_STM32F4:STM32F446RETx	Package_QFP:LQFP-64_10x10mm_P0.5mm

U2	1	LM1117S-3.3	Regulator_Linear:LM1117S-3.3	Package_TO_SOT_SMD:TO-263-3_TabPin2
U3	1	MLX90614ESF-ACC-000-TU	Temp_sensor:MLX90614ESF-ACC-000-TU	temp:MLX90614xCC_MEL
U4	1	MAX30100EFD+	oxy:MAX30100EFD+	oximeter:21-0880B_MXM-L
U5	1	AD623	Amplifier_Instrumentation:AD623	AD623:RM_8_ADI-L
U6, U7, U8	3	LM358	Amplifier_Operational:LM358	LM358:D8-L
Y1	1	Crystal_25MHz	Device:Crystal_GND24	Crystal:Crystal_SMD_SeikoEpson_FA238V-4Pin_3.2x2.5mm
J5	1	ILI9488	TFT display ILI9488	LCD device: ILI9488