

Source:IoT_IR_Thermometer_ESP12E.sch		
Tool: Eeschema (5.1.5)-3		
Ref	Value	Footprint
BT1	20MM_PTH	Batteries:BATTCOM_20MM_PTH
C1	10UF	Capacitors:EIA3216
C2	470p	Capacitors:0805
C3	100nf	Capacitors:0805
C5	100uF	Capacitors:EIA3216
C7	100nf	Capacitors:0805
C9	10nf	Capacitors:0805
D1	LED-BLUE1206	LED:LED-1206
D2	LED-BLUE1206	LED:LED-1206
dis1	OLED_I2C	Connector_JST:JST_EH_B4B-EH-A_1x04_P2.50mm_Vertikal
J1	CONN_02JST-PTH-2	Connector_JST:JST_EH_B2B-EH-A_1x02_P2.50mm_Vertikal
J2	CONN_03JST-PTH	Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertikal
J3	CONN_05JST	Connector_JST:JST_EH_B5B-EH-A_1x05_P2.50mm_Vertikal
J4	03JST	Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertikal
J5	CONN_05JST	Connector_JST:JST_EH_B5B-EH-A_1x05_P2.50mm_Vertikal
J6	CONN_02JST-PTH-2	Connector_JST:JST_EH_B2B-EH-A_1x02_P2.50mm_Vertikal
JP1	Jumper	Jumpers:jumper-3pin-smd-dualside
LS1	BUZZER-PTH	Electromechanical:BUZZER-12MM-NS-KIT
Q1	MMBT2222	Package_TO_SOT_SMD:SOT-23
Q2	MMBT2222	Package_TO_SOT_SMD:SOT-23
R1	1k	Resistors:0805
R2	10k	Resistors:0805
R3	10k	Resistors:0805
R4	470e	Resistors:0805
R5	10k	Resistors:0805
R6	10k	Resistors:0805
R7	1k	Resistors:0805
R8	10k	Resistors:0805
R9	10k	Resistors:0805
R10	10k	Resistors:0805
R11	10k	Resistors:0805
R12	10k	Resistors:0805
R13	10k	Resistors:0805

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R14	10k	Resistors:0805
R15	1k	Resistors:0805
R16	10k	Resistors:0805
R17	10k	Resistors:0805
R18	470e	Resistors:0805
S1	sw	Switches:TACTILE_SWITCH_SMD_6.0X3.5MM
S2	sw	Switches:TACTILE_SWITCH_SMD_6.0X3.5MM
S5	SWITCH-SPDT	Switches:SWITCH_SPDT_PTH_11.6X4.0MM_KIT
SW1	SW_SPST	Button_Switch_THT:SW_Tactile_SPST_Angled_PTS6 45Vx83-2LFS
U1	ESP-12E	RF_Module:ESP-12E
U2	LM35-NEB	Package_TO_SOT_THT:TO-92
U3	DS3231M	Package_SO:SOIC-16W_7.5x10.3mm_P1.27mm
U4	MLX90614	Connector_JST:JST_EH_B4B-EH-A_1x04_P2.50mm_Vertical
U5	V_REG_LD1117v3.3	Package_TO_SOT_SMD:SOT-223

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dis1	OLED_I2C	SSD1306:128x64OLED
J1	CONN_05JST	Connector_JST:JST_EH_B5B-EH-A_1x05_P2.50mm_V
J2	CONN_04JST-PTH	Connector_JST:JST_EH_B4B-EH-A_1x04_P2.50mm_V
S1	MOMENTARY-SWITCH-SPST-2-PTH-RT-ANGLE	SW_PUSH_6mm_H7.5mm
S2	MOMENTARY-SWITCH-SPST-2-PTH-RT-ANGLE	SW_PUSH_6mm_H7.5mm
S3	MOMENTARY-SWITCH-SPST-2-PTH-RT-ANGLE	SW_PUSH_6mm_H7.5mm
S4	MOMENTARY-SWITCH-SPST-2-PTH-RT-ANGLE	SW_PUSH_6mm_H7.5mm
S5	MOMENTARY-SWITCH-SPST-2-PTH-RT-ANGLE	SW_PUSH_6mm_H7.5mm

**Other Required Components**

MLX90614 (IR Thermometer) Module

650 nm Laser Module

9v Battery

9V Battery Connector

CR2032 3v Coin Cell
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Slide Switch
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