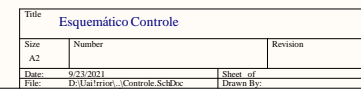


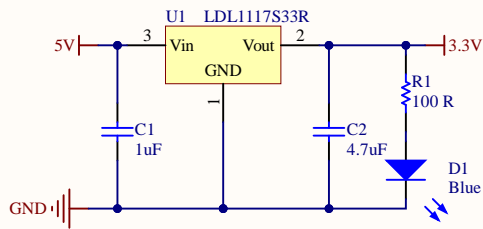
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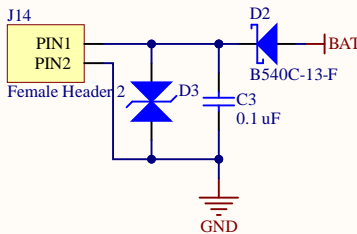
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MODULO PRINCIPAL FONTE

FONTE LINEAR 3.3V

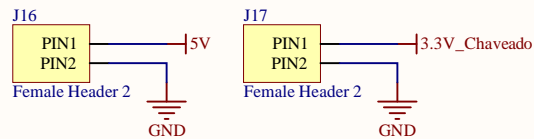


HEADER MODULO 5V

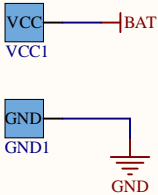


HEADERS

HEADER MODULO 3.3V CHAVEADO



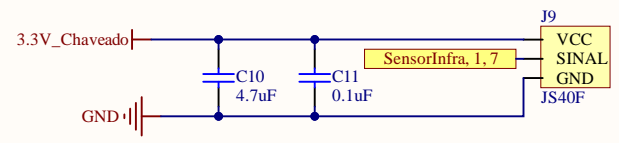
PADS



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MODULO PRINCIPAL SENSOR INFRAVERMELHO JS40F



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<div><div><div>ESP32</div><div>MODULO ESP32 DEVKIT V1 - DOIT</div><div><div><div>EN</div><div>J13</div><div>EN</div><div>ESP32_SIGNAL</div><div>LED</div><div>3.3V_Chaveado</div><div>GND</div></div><div><div>GPIO36 / ADC1 CH0 / Sensor VP / RTC_GPIO0</div><div>GPIO39 / ADC1 CH3 / Sensor VN / RTC_GPIO3</div><div>GPIO34 / ADC1 CH6 / RTC_GPIO4</div><div>GPIO35 / ADC1 CH7 / RTC_GPIO5</div><div>GPIO32 / ADC1 CH4 / TOUCH9 / RTC_GPIO9</div><div>GPIO33 / ADC1 CH5 / TOUCH8 / RTC_GPIO8</div><div>GPIO25 / ADC2 CH8 / DAC1 / RTC_GPIO6</div><div>GPIO26 / ADC2 CH9 / DAC2 / RTC_GPIO7</div><div>GPIO27 / ADC2 CH7 / TOUCH7 / RTC_GPIO17</div><div>GPIO4 / ADC2 CH0 / TOUCH0 / RTC_GPIO10</div><div>GPIO2 / ADC2 CH2 / TOUCH2 / RTC_GPIO12</div><div>GPIO14 / ADC2 CH6 / TOUCH6 / HSPI_CLK / RTC_GPIO16</div><div>GPIO12 / ADC2 CH6 / TOUCH5 / HSPI_MISO / RTC_GPIO15</div><div>GPIO13 / ADC2 CH4 / TOUCH4 / HSPI_MOSI / RTC_GPIO14</div><div>GPIO15 / ADC2 CH3 / TOUCH3 / HSPI_CS0 / RTC_GPIO13</div></div><div><div>GPIO22 / I2C_SCL</div><div>GPIO21 / I2C_SDA</div><div>GPIO1 / UART0_TX</div><div>GPIO3 / UART0_RX</div><div>GPIO17 / UART2_TX</div><div>GPIO16 / UART2_RX</div><div>GPIO18 / VSPI_CLK</div><div>GPIO19 / VSPI_MISO</div><div>GPIO23 / VSPI_MOSI</div><div>GPIO5 / VSPI_CS0</div></div></div></div><div><div>RESET BUTTON</div><div><div>EN</div><div>S1</div><div>R10</div><div>10kR</div><div>GND</div></div><div><div>LED</div><div>R2</div><div>100 R</div><div>D8</div><div>Green</div><div>GND</div></div></div></div>																											
<table><tr><td colspan="4">Title</td></tr><tr><td>Size</td><td colspan="2">Number</td><td>Revision</td></tr><tr><td>A4</td><td colspan="2"></td><td></td></tr><tr><td>Date:</td><td colspan="2">9/23/2021</td><td>Sheet of</td></tr><tr><td>File:</td><td colspan="2">D:\Uai!rrior!\Comunicacao.SchDoc</td><td>Drawn By:</td></tr></table>								Title				Size	Number		Revision	A4				Date:	9/23/2021		Sheet of	File:	D:\Uai!rrior!\Comunicacao.SchDoc		Drawn By:
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Comment	Description	Designator	Footprint	LibRef	Quantity
1uF	CAP CER 1uF 25V X5R 0805, CAP CER 1uF 25V Y5V 0805	C1, C8	C0805	885012107015, CC0805ZRY5V8BB105	2
4.7uF	CAP CER 4.7uF 25V 20% 0805	C2, C10_SensorInfra1, C10_SensorInfra2, C10_SensorInfra3, C10_SensorInfra4, C10_SensorInfra5, C10_SensorInfra6, C10_SensorInfra7	C0805	0805X475M250CT	8
0.1 uF	CAP CER 0.1uF 50V X7R 0805	C3	C0805	C0805C104K5RACTU	1
0.1uF	CAP CER 0.1uF 16V X5R 0402	C4, C5, C7, C13, C14	CAPC1005X55N	GRM155R61C104KA88D	5
4.7 uF	CAP CER 4.7uF 16V X5R 0603	C6	C0603	GRM188R61C475KAAJ D	1
2.2 uF	CAP CER 2.2UF 16V X5R 0402	C9, C12	C0402	C1005X5R1C225M050 BC	2
0.1uF	CAP CER 0.1uF 25V X7R 0805	C11_SensorInfra1, C11_SensorInfra2, C11_SensorInfra3, C11_SensorInfra4, C11_SensorInfra5, C11_SensorInfra6, C11_SensorInfra7	C0805	08053C104KAT2A	7
Blue	LED 75mW BLUE 45MCD 3215	D1	DIODO_2-SMD-3215	EAST3215BA5	1
B540C-13-F	DIODE SCHOTTKY 40V 5A DO-214AB	D2	DIODO_DO-214AB	B540C-13-F	1
ESD110B102ELE6327X TMA1	DIODE TVS 26V 14.2A DO-214AA-2	D3	DIODO-TSSLP-2-4	ESD110B102ELE6327X TMA1	1
Green	LED 0.072W GREEN 40MCD 0603	D4, D5, D6, D7, D8	LED_0603	150060VS75000	5
Ground Pad	GND PAD SUMÔ 3KG	GND1		Ground Pad Sumô 3Kg	1
STM32F405RGT6	IC MCU 32-BIT 192kB FLASH ARM Cortex-M4 168MHz LQFP-64	IC1	LQFP-64	STM32F405RGT6	1
Female Header 2	Female Header 2	J1, J2, J3, J4, J10, J11, J14, J15, J16, J17	Female Header 2	Female Header 2	10
Female Header 3	Female Header 3	J5, J6, J7, J8	FEMALE HEADER 3	Female Header 3	4
JS40F	JS40F HEADER 3 PIN	J9_SensorInfra1, J9_SensorInfra2, J9_SensorInfra3, J9_SensorInfra4, J9_SensorInfra5, J9_SensorInfra6, J9_SensorInfra7	HEADER 3 PIN SENSOR	JS40F	7
STM Bootloader	BARRAMENTO DE GRAVAÇÃO	J12	STM BOOTLOADER	Barramento de Gravação STM	1
ESP32	Header Modulo ESP32	J13	Modulo ESP32	Modulo ESP32	1
100 R	RES SMD 100 OHM 1% 1/10W 0603	R1, R2, R5, R6, R7, R8	RESISTOR_0603	RC0603FR-10100RL	6
10kR	RES SMD 10K OHM 5% 1/16W 0402	R3, R4, R9	RESISTOR_0402	RC0402JR-0710KL	3
10kR	RES SMD 10K OHM 5% 1/10W 0603	R10	RESISTOR_0603	RC0603JR-0710KL	1
PTS540JK035SMTRLS	TACTILE SWITCH SPST 0.05A 12VDC SMD	S1	PUSH_BUTTON	Push Button	1
LDL1117S33R	IC REG LINEAR 3.3V 1.2A SOT-223-4	U1	SOT-223-4	LDL1117S33R	1
Source Pad	VCC PAD SUMÔ 3KG	VCC1		Source Pad Sumô 3Kg	1