

Referencia	Quantidade	Valor-item	Footprint
C12 C13	2	100pF	Capacitors_ThroughHole:C_Disc_D3.4mm_W2.1mm_P2.50mm
C11 C14	2	22pF	Capacitors_ThroughHole:C_Disc_D3.4mm_W2.1mm_P2.50mm
C10 C18 C2 C5 C7	5	10uF	Capacitors_THT:CP_Radial_D4.0mm_P2.00mm
C1 C17 C21 C22 C25 C4 C6 C9	8	0.1uF	Capacitors_ThroughHole:C_Disc_D3.4mm_W2.1mm_P2.50mm
C23	1	100uF	Capacitors_THT:CP_Radial_D5.0mm_P2.50mm
C24	1	47uF	Capacitors_THT:CP_Radial_D5.0mm_P2.50mm
C15 C16 C3 C8	4	0.22u	Capacitors_ThroughHole:C_Disc_D3.4mm_W2.1mm_P2.50mm
D1	1	LED AZUL 5mm	LEDs:LED_D5.0mm
D2	1	LED AZUL 5mm	LEDs:LED_D5.0mm
D3	1	1N4007	Diodes_THT:D_DO-41_SOD81_P7.62mm_Horizontal
D4	1	LED VERDE 5mm	LEDs:LED_D5.0mm
J1	1	ultrassom	Connectors_Molex:Molex_KK-6410-04_04x2.54mm_Straight
J2	1	reflectancia-entrada	Connectors_Molex:Molex_KK-6410-06_06x2.54mm_Straight
J3	1	SERIAL UART	Connectors_Molex:Molex_KK-6410-04_04x2.54mm_Straight
J4	1	ponte H PWM	Connectors_Molex:Molex_KK-6410-06_06x2.54mm_Straight
J5	1	PWR OUT	TerminalBlock:TerminalBlock_bornier-2_P5.08mm
J6	1	ICSP2	Connectors_IDC:IDC-Header_2x03_Pitch2.54mm_Straight
J7	1	PWR IN	TerminalBlock:TerminalBlock_bornier-2_P5.08mm
J8	1	PWR JACK	Connectors:BARREL_JACK
J9	1	5VOUT	TerminalBlock:TerminalBlock_bornier-2_P5.08mm
R1 R2 R3 R5	4	1k	Resistors_ThroughHole:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R4 R7	2	10k	Resistors_ThroughHole:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R6 R8 R9	3	470R	Resistors_ThroughHole:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
SW1	1	RESET	Buttons_Switches_THT:SW_PUSH_6mm_h4.3mm
SW2	1	START	Buttons_Switches_THT:SW_PUSH_6mm_h4.3mm
U1	1	ATmega328P-PU	Housings_DIP:DIP-28_W7.62mm_LongPads
U2	1	LM7805_TO220	TO_SOT_Packages_THT:TO-220-3_Vertical
Y1	1	16Mhz	Crystals:Crystal_HC49-U_Vertical