





























Comment	Description	Designator	Footprint	LibRef	Quantity
Header 3	Header, 3-Pin	+Bat	AZUL5-3	Header 3	1
XTAL	Crystal Oscillator	1	XTAL-1	XTAL	1
Cap	Capacitor	C1, C2, C4, C6, C8, C10, C11	RAD-0.1	Cap	7
16v	Polarized Capacitor (Radial)	C3, C7	C100UFA	Cap Pol1	2
16v	Polarized Capacitor (Radial)	C5, C9	C1UF	Cap Pol1	2
Diode 1N4001	1 Amp General Purpose Rectifier	D1, D2, D3, D4	DO-41	Diode 1N4001	4
1N4738A	One Watt Hermetically Sealed Glass Silicon Zener Diode	D5	59-03	1N4738A	1
Header 5	Header, 5-Pin	Datal/O	HDR1X5	Header 5	1
Header 2	Header, 2-Pin	InDis	AZUL5-2	Header 2	1
Header 4	Header, 4-Pin	OutB	AZUL5-4	Header 4	1
IRFZ44N	HEXFET Power MOSFET	Q1, Q2	TO-220AB	IRFZ44N	2
Res1	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	AXIAL-0.3	Res1	12
SW-PB	Switch	S1, S2	PULSA4	SW-PB	2
Header 10	Header, 10-Pin	Sen	AZUL5-10	Header 10	1
PIC18F4550-I/P	High Performance, Enhanced Flash, USB Microcontroller with nanoWatt Technology, 32K Flash, 40-Pin PDIP, Industrial Temperature Range	U1	PDIP600-P40	PIC18F4550-I/P	1
L7805CV	Positive Voltage Regulator	U2, U3	TO220ABN	L7805CV	2
LM324N	Quadruple Operational Amplifier	U4	N014	LM324N	1
L7809CV	Positive Voltage Reg	U5, U6	TO220ABN	L7809CV	2