

- **Zoznam súčiastok :**

Komponent	Hodnota	Puzdro	Množstvo
C3	10n	Capacitor_THT:C_Disc_D4.3mm_W1.9mm_P5.00mm	1
C4	4700uF/50V	Capacitor_THT:C_Radial_D22.0mm_H44.5mm_P10mm	1
C5	3300uf/50V	Capacitor_THT:C_Radial_D22.0mm_H44.5mm_P10mm	1
C1, C2, C6-C8, C11-C13, C15, C18, C19	100n	Capacitor_THT:C_Disc_D4.3mm_W1.9mm_P5.00mm	11
C9, C14, C16	1n	Capacitor_THT:C_Disc_D4.3mm_W1.9mm_P5.00mm	3
C17	1u	Capacitor_THT:CP_Radial_D5.0mm_P2.50mm	1
C10,C20, C21,C22	100u/16V	Capacitor_THT:CP_Radial_D5.0mm_P2.50mm	4
D2	D_Bridge_+-AA BR1010	Diode_THT:Diode_Bridge_19.06x19.06x7.6mm_P12.7mm_KBPC	1
D3	P600	Diode_THT:D_5KP_P7.62mm_Vertical_KathodeUp	1
D1, D4	1N4148	Diode_THT:D_DO-35_SOD27_P10.16mm_Horizontal	2
D5	1N4007	Diode_THT:D_DO-35_SOD27_P10.16mm_Horizontal	1
D6	Green	LED_THT:LED_D5.0mm	1
D7	Red	LED_THT:LED_D5.0mm	1
D8	BZX55/C3V0	Diode_THT:D_DO-35_SOD27_P10.16mm_Horizontal	1
J1	Input	TerminalBlock:TerminalBlock_bornier-2_P5.08mm	1
J2	measure	Connector_PinHeader_2.54mm:XH2.54x03_P2.54mm_Vertical	1
J3	control	Connector_PinHeader_2.54mm:XH2.54x04_P2.54mm_Vertical	1
J4	Output	TerminalBlock:TerminalBlock_bornier-2_P5.08mm	1
J5	Fan	Connector_PinHeader_2.54mm:XH2.54x02_P2.54mm_Vertical	1
J6	LED2	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	1
J7	LED1	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	1

J8	LCD	Connector_PinHeader_2.54mm:XH2.54x04_P2.54mm_Vertical	1
J9	MEASURE	Connector_PinHeader_2.54mm:XH2.54x03_P2.54mm_Vertical	1
J10	CONTROL	Connector_PinHeader_2.54mm:XH2.54x04_P2.54mm_Vertical	1
J11	KEYPAD	Connector_PinHeader_2.54mm:PinHeader_1x08_P2.54mm_Horizontal	1
J12	LED	Connector_PinHeader_2.54mm:XH2.54x02_P2.54mm_Vertical	1
J13	ISP	Connector_IDC:IDC-Header_2x03_P2.54mm_Vertical	1
Q1	BD139	Package_TO_SOT_THT:TO-126-3_Vertical	1
Q3, Q5	BC547B	Package_TO_SOT_THT:TO-92_HandSolder	2
Q4	2SC5200	Package_TO_SOT_THT:TO-264-3_Vertical	1
Q2, Q6, Q7	BD140	Package_TO_SOT_THT:TO-126-3_Vertical	3
R2, R3,R9, R23, R37-R39, R44-R48	4k7	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	12
R12	8k2	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R4, R5, R13, R15, R19, R28, R41, R43, R49, R53	2k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	10
R14	16k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R16	10k/12k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R17	2k/3k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R1, R6, R18, R20, R24, R35, R36, R40, R42	1k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	9
R21, R22, R33, R54,R55	100	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	5
R7, R8, R10, R11, R26, R27, R30, R31	10k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	8
R29	0.1/5W	Resistor_THT:R_Radial_Power_L13.0mm_W9.0mm_P5.00mm	1
R25, R32, R34	100k	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	3
R50	220	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R51	200	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1
R52	0	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal	1

RV1, RV2	10k	Connector_PinHeader_2.54mm:XH2.54x03_P2.54mm_Vertical	2
RV3	5k	Trimer_THT:Trimer_Bourns_3296W_Vertical	1
RV4	500	Trimer_THT:Trimer_Bourns_3296W_Vertical	1
SW1	KSD-9700 110°C	Package_Normal_Open_Ceramic	1
U1, U5, U9, U10	TL431	Package_TO_SOT_THT:TO-92_HandSolder	4
U3	LM324	Package_DIP:DIP-14_W7.62mm_LongPads	1
U2, U4	MCP4725A0T	Package_TO_SOT_SMD:SOT-23-6	2
U6	ATTiny45	Package_DIP:DIP-8_W7.62mm	1
U7	PCF8574P	Package_DIP:DIP-16_W7.62mm_LongPads	1
U8	LM317	Package_TO_SOT_SMD:TO-252-2	1