

ECG Patient Simulator

BILL OF MATERIAL

Date: 14/11/2020 13:43:31

Tool: Eeschema (5.1.0)-1

Component Count: 50

Ref.	Quantity	Type	Value	Footprint
C1	1	Capacitor Electrolytic	10uF	Capacitor_THT:CP_Radial_D6.3mm_P2.50mm
C2	1	Capacitor Electrolytic	2,2uF	Capacitor_THT:CP_Radial_D6.3mm_P2.50mm
C3, C4	2	Capacitor Ceramic	100nF	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P5.00mm
C5, C6	2	Capacitor Ceramic	22pF	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P5.00mm
C7	1	Capacitor Ceramic	200nF	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P5.00mm
C8	1	Capacitor Electrolytic	47nF	Capacitor_THT:C_Disc_D5.0mm_W2.5mm_P5.00mm
C9	1	Capacitor Electrolytic	1uF	Capacitor_THT:CP_Radial_D6.3mm_P2.50mm
D1, D2, D3, D4	4	Diode DUS	1N4148	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
D5	1	Diode Rectifier	1N4001 or 1N4007	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D6	1	LED White 5mm 3,2V 20mA	LED	LED_THT:LED_D5.0mm
J1	1	PinConnector	Battery Connector	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical
J2	1	PinConnector	LeadWire Connector	Connector_PinHeader_2.54mm:PinHeader_2x05_P2.54mm_Vertical
J3	1	PinConnector	Speaker Connector	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical
J4	1	Att Resistor Socket	Att Resistor Socket	Connector_PinHeader_2.54mm:PinHeader_1x05_P2.54mm_Vertical
Q1	1	MOSFET P-Channel	IRFU9024	Package_TO_SOT_THT:TO-251-3_Vertical
Q2, Q3	2	MOSFET N-Channel	2N7000	Package_TO_SOT_THT:TO-92_Inline
R1, R2	2	Resistor 1/4W 5%	56K	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R2	1	Resistor 1/4W 5%	56K	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R3	1	Resistor 1/4W 5%	220R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R4, R7	2	Resistor 1/4W 5%	10K	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R5	1	Resistor 1/4W 5%	5K6	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R6	1	Resistor 1/4W 5%	2K7	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R8	1	Resistor 1/4W 5%	1K	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R9	1	Resistor 1/4W 5%	330K	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R10	1	Resistor 1/4W 5%	330R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal

R11	1	Resistor 1/4W 5%	27R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R12	1	Resistor 1/4W 5%	82R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
R13	1	Resistor 1/4W 5%	390R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
SW1, SW2	2	PushButton BROSE 532.0(UP, DOWN Switch		Button_Switch_THT:Push_E-Switch_KS01Q01
SW4	1	Dip Switch 2 position	DIP_x02	Package_DIP:DIP-4_W7.62mm
U1	1	Microcontroller Arduino E ATmega328-PU		Package_DIP:DIP-28_W7.62mm
U2	1	Linear Voltage regulator	LE50ABZ	Package_TO_SOT_THT:TO-92_Inline_Wide
Y1	1	Low Profile X-Tal	16Mhz	Crystal:Crystal_HC18-U_Vertical

PCB and External Components

Speaker Att. Res	1	Resistor 1/4W 5%	Typically 100R	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
9V Battery Clip	1	9V Battery Clip		
10-Pole IDC Con	1	10-Pole IDC Connector		
20 mm Speaker	1	20 mm Speaker	Piezo Speaker 20mm	
28 Pin IC Socket	1	28 Pin IC Socket		Package_DIP:DIP-28_W7.62mm
Female Header	2	Female Header		Female header for pushbutton extension
PCB Eurocircuits	1	PCB Eurocircuits		