

Bill of Materials: Soldering Station.fzz

C:/Users/Ahmed Mohiuddin Shah/Documents/Projects/Soldering Station Circuit/Soldering Station.fzz
Sunday, March 17 2024, 05:33:56

Assembly List

Label	Part Type	Properties
Arduino Nano	Arduino Nano (Rev3.0)	type Arduino Nano (3.0)
BT138	MOSFET-NCHANNEL	variant pth2; package to220v
BT138	MOSFET-NCHANNEL	variant pth2; package to220v
C4	Ceramic Capacitor	voltage 16V; capacitance 0.1µF; package 100 mil [THT, multilayer]
C5	Ceramic Capacitor	voltage 16V; capacitance 0.1µF; package 100 mil [THT, multilayer]
C6	Electrolytic Capacitor	voltage 6.3V; capacitance 1µF; package 100 mil [THT, electrolytic]
C7	Electrolytic Capacitor	voltage 6.3V; capacitance 1µF; package 100 mil [THT, electrolytic]
I2C OLED LCD	Grove OLED 128x96	variant variant 1; interface I2C; size 1x2
J2	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J4	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J5	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J6	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J7	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J8	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
J9	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
L7805	Voltage Regulator - 5V	voltage 5V; variant variant 1; package TO220 [THT]

Label	Part Type	Properties
R1	470Ω Resistor	pin spacing 400 mil; resistance 470Ω; bands 4; tolerance ±5%; package THT
R2	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R3	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R4	470Ω Resistor	pin spacing 400 mil; resistance 470Ω; bands 4; tolerance ±5%; package THT
R5	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R6	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R7	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R8	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
R9	1kΩ Resistor	pin spacing 400 mil; resistance 1kΩ; bands 4; tolerance ±5%; package THT
R10	1kΩ Resistor	pin spacing 400 mil; resistance 1kΩ; bands 4; tolerance ±5%; package THT
Reed Switch	Reed switch	package THT
Rotary Encoder Breakout	KY-040 Rotary encoder	variant variant flat; type KY-040; package Breakout board
S1	Pushbutton	package [THT]
Toggle Switch 220V	Toggle Switch	switching circuit SPDT; package THT
U2	MOC3031-M	package dil06
U3	TRIAC	variant pth; package to-220
U4	MOC3031-M	package dil06
U5	TRIAC	variant pth; package to-220
U6	MAX6675	chip MAX6675; interface SPI; package so08
U7	MAX6675	chip MAX6675; interface SPI; package so08

Shopping List

Amount	Part Type	Properties
1	Arduino Nano (Rev3.0)	type Arduino Nano (3.0)

Amount	Part Type	Properties
2	MOSFET-NCHANNEL	variant pth2; package to220v
2	Ceramic Capacitor	voltage 16V; capacitance 0.1μF; package 100 mil [THT, multilayer]
2	Electrolytic Capacitor	voltage 6.3V; capacitance 1μF; package 100 mil [THT, electrolytic]
1	Grove OLED 128x96	variant variant 1; interface I2C; size 1x2
7	Screw terminal - 2 pins	pin spacing 0.137in (3.5mm); hole size 1.0mm,0.508mm; pins 2; package THT
1	Voltage Regulator - 5V	voltage 5V; variant variant 1; package TO220 [THT]
2	470Ω Resistor	pin spacing 400 mil; resistance 470Ω; bands 4; tolerance ±5%; package THT
6	220Ω Resistor	pin spacing 400 mil; resistance 220Ω; bands 4; tolerance ±5%; package THT
2	1kΩ Resistor	pin spacing 400 mil; resistance 1kΩ; bands 4; tolerance ±5%; package THT
1	Reed switch	package THT
1	KY-040 Rotary encoder	variant variant flat; type KY-040; package Breakout board
1	Pushbutton	package [THT]
1	Toggle Switch	switching circuit SPDT; package THT
2	MOC3031-M	package dil06
2	TRIAC	variant pth; package to-220
2	MAX6675	chip MAX6675; interface SPI; package so08

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