









Comment	Description	Designator	Footprint	LibRef	Quantity	Price
		C1, C7, C8, C15, C16, C17, C18,				
104	Non-polar capacitor	C19, C22, C26, C29, C30	CAP-SMD-0805	Cap-Non-SMD	12	
104	Non-polar capacitor	C2, C3	Cap-Mica-10- 6.2x12.5x10.5	Cap-Non-DIP	2	0.005
103	Non-polar capacitor	C4, C5, C14	CAP-SMD-0805	Cap-Non-SMD	3	
	Non-polar		CAP-SMD-0805			
102	Non-polar	C6		Cap-Non-SMD	1	
226	capacitor Non-polar	C9, C10, C11, C12	CAP-SMD-2512	Cap-Pol-SMD	4	
105	capacitor Non-polar	C13	CAP-SMD-0805	Cap-Non-SMD	1	
106	capacitor DIODE-ZNR 5.1V	C23, C27, C28, C31	CAP-SMD-0805	Cap-Non-SMD	4	
6V	5% PD=1W IR=10uA	D1, D5	DIO-SMD-123	ZENER	2	
1N4001	1.0A RECTIFIER	D3, D7, D8	DIO-SMD-123	1N4001	3	0.006
BAT60	DIODE SCHOTTKY 10V 3A SOD323-2	D4	DIO-SMD-106	BAT60	1	0.008
	DIODE-ZNR 5.1V 5% PD=1W					
9V	IR=10uA LED RED CLEAR	D6	DIO-SMD-123	ZENER	1	
12V	0603 SMD	D9	LED0603-IPC	LED 0603 Red	1	
5V	CLEAR 0603 SMD	D10	LED0603-IPC	LED 0603 Yellow	1	
3.3V	LED GREEN CLEAR 0603 SMD	D11	LED0603-IPC	LED 0603 Green	1	
	ALARM-AUDIBLE PIEZO ALARM PIN					
PKM5	TYPE; 5V	E1	BUZZER	BUZZER	1	
2A LM2596	Power IC	F1 IC1	Fuse-SMD 1813 TO263	Fuse SMD LM2596	1	
FAN-HUMI		J1	KF2/5.08	JP2	1	
FAN-VENT HEATER		J2 I3	KF2/5.08	JP2 IP2	1	
HEATER TURN	+	J3 J4	KF2/5.08 KF2/5.08	JP2 JP2	1	
	Male Box Header WR-BHD, THT,					
PROGRAM	Vertical, pitch 2.54 mm, 10 pins	J5	IDC10	IDE_5X2	,	
DHT22	IIIII, 10 pilis	J6	KF3/5.08	JP3	1	
POWER		J7	KF2/5.08	JP2_IN	1	
MASS 3MM	3MM PAD 2.2µH Shielded	J8, J9, J10, J11	MY_PAD_3MM	JP1_IN	4	
	Wirewound Inductor 8.2A					
	10mOhm Max Nonstandard, 4					
33uH	Lead	L1, L2	5026_INDUCTOR	INDUCTOR_FE	2	
	Tensilica Xtensa LX6					
	microprocessor @ 160 or 240 MHz ·					
ESP32-S	320 KiB SRAM	M1	ESP32-S-Footprint LCD_176X220_MO	ESP32-S	1	
ST7775R		M2	DULE	LCD_176x220	1	
	N-Channel 16A (Tc) 79W (Tc) Surface					
AO3416	Mount D-Pak Transistor, NPN,	Q1	SOT23(123)	IRFR3910TRLPBF	1	0.15
NPN	RF, 50mA, 12V	Q2	SOT23(123)	NPN	1	
	THYRISTOR-TRIAC TO-220AB					
BT137	VRRM=600 Transistor, NPN,	Q3, Q5	TO252AA	SCR	2	
C1815	RF, 50mA, 12V THYRISTOR-TRIAC	Q4, Q6, Q7, Q9	SOT23(123)	NPN	4	
BT136	TO-220AB VRRM=600	Q8	TO252AA	SCR	1	
RES-2512-4.7R	Chip Resistor, 0805, 1%, 1/8 W	R1, R2	RES-SMD-2512	RES	2	0.005
NL3-2012-4./R	0303, 178, 170 W	R3, R4, R5, R6, R7,	NES-SIVID-ZS1Z	nes	2	0.000
		R8, R10, R11, R12, R13, R15, R16,				
		R17, R18, R20, R21, R44, R45,				
	Chip Resistor,	R46, R47, R48, R49, R50, R51,				
RES-2512-4.7R	0805, 1%, 1/8 W	R52, R53	RES-SMD-0805	RES	26	0.005
		R9, R22, R23, R24, R25, R26, R27,				
		R28, R29, R30, R31, R32, R33,				
	Chip Resistor,	R31, R32, R33, R34, R35, R36, R37, R38, R39,				
R0805	0805, 1%, 1/8 W	R40, R41, R42, R43	RES-SMD-0805	RES	23	0.005
RES	Chip Resistor, 0805, 1%, 1/8 W	R14, R19	RES-SMD-2512	RES	2	0.005
	SWITCH TACTILE SPST-NO 0.05A			SWITCH TACTILE		
RESET	12V SWITCH TACTILE	S1	TL3342F260QG	SPST	1	0.25
воот	SPST-NO 0.05A	S2	TL3342F260QG	SWITCH TACTILE SPST	1	0.25
	7mV 250nA 7uV/C				'	
LM358	1MHz 0.6V/uS 0.8mA 3-32V	U1, U5	SOIC-8S	LM358	2	0.24
	OPTO-ISOLATOR LED-PTRIAC					
	IF=50mA-max	U2, U3	DIP6	MOC3020Z	2	
MOC3020Z	1A Bipolar Linear					
MOC3020Z AMS1117	1A Bipolar Linear Regulator	U4	SOT223(1234)	AMS1117	1	
	1A Bipolar Linear	U4	SOT223(1234)	AMS1117	1	