

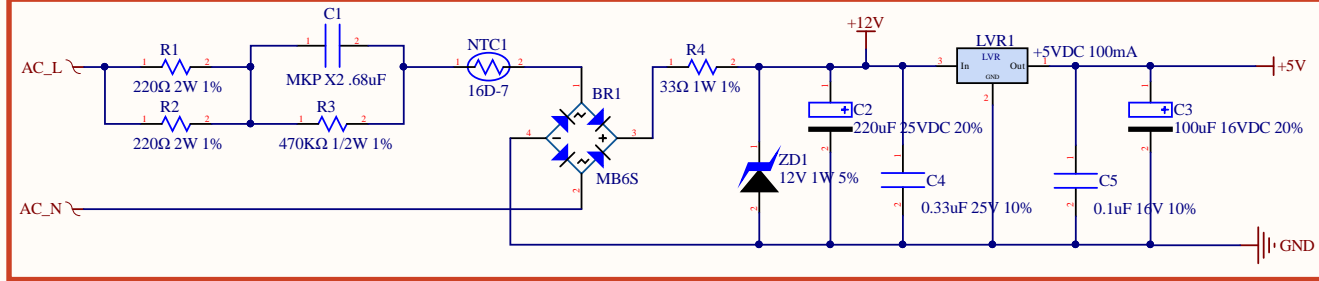
PCB Tab Terminal Connectors

CN1-PHASE
187 Series RA TAB
AC_L

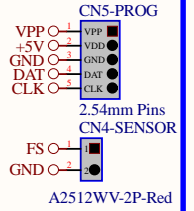
CN2-NEUTRAL
187 Series RA TAB
AC_N

CN3-COMP
187 Series RA TAB
AC_M

Linear Adapter

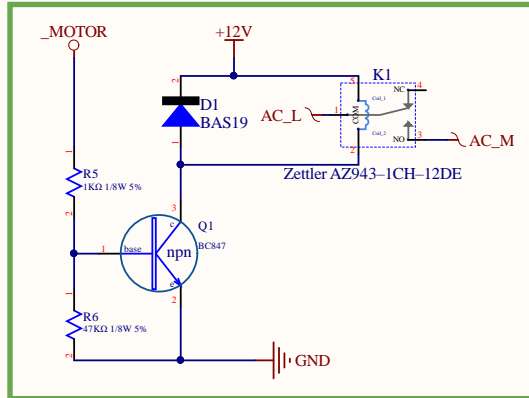


DC Connectors

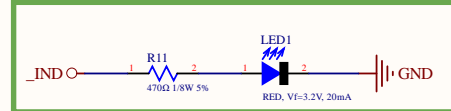


#	Designator	LibRef	Description	Comment	Quantity
1	BR1	Bridge Rectifier	BRIDGE RECT 1P 600V 500mA 4SOIC, ON SEMICONDUCTOR	MB6S	1
2	C1	Capacitor Non-Polar	684K310V P=15 18*9.5*15.5 Climate-category: 40/110/56	MKP X2 .68uF	1
3	C2	Capacitor Polar	0811mm 3.5mm Pitch	220uF 25VDC 20%	1
4	C3	Capacitor Polar	0911mm 2mm Pitch	100uF 16VDC 20%	1
5	C4	Capacitor Non-Polar	0805 Multilayer Ceramic Capacitors	0.33uF 25V 10%	1
6	C5, C6, C7	Capacitor Non-Polar	0805 Multilayer Ceramic Capacitors	0.1uF 16V 10%	3
7	CN1-PHASE, CN2-NEUTRAL, CN3-COMP	Connector_1PIN	4.8mm TAB, 0.8mm thickness	187 Series RA TAB	3
8	CN4-SENSOR	Connector_2PINs		A2512WV-2P-Red	1
9	CN5-PROG	Connector_PIC_Burn		2.54mm Pins	1
10	D1	Diode	SOT-23-3, Diode 200mA	BAS19	1
11	K1	Relay		Zettler AZ943-1CH-12DE	1
12	LED1	LED	60°5mm, 2.5mm Pitch	RED, Vf=3.2V, 20mA	1
13	LVR1	Voltage Regulator	SOT-89-3L, Plastic-Encapsulate Voltage Regulator	+5VDC 100mA	1
14	NTC1	Thermistor	5mm Pitch	16D-7	1
15	Q1	BJT_npn	SOT-23-3, NPN 200mA	BC847	1
16	R1, R2	Resistor	Metal Oxide Film Resistor, Through Hole Axial, L=12, øD=5, H=28, ød=0.6, Flame Proof	220Ω 2W 1%	2
17	R3	Resistor	Metal Oxide Film Resistor, Through Hole Axial, L=7, øD=2.5, H=28, ød=0.48, Flame Proof	470KΩ 1/2W 1%	1
18	R4	Resistor	Metal Oxide Film Resistor, Through Hole Axial, L=10, øD=4, H=28, ød=0.5, Flame Proof	33Ω 1W 1%	1
19	R5, R9	Resistor	0805 Thick Film SMD Resistor	1KΩ 1/8W 5%	2
20	R6	Resistor	0805 Thick Film SMD Resistor	47KΩ 1/8W 5%	1
21	R7, R11, R12	Resistor	0805 Thick Film SMD Resistor	470Ω 1/8W 5%	3
22	R8	POT	3Pin Potentiometer HPOD9	POT 10KΩ 1/8W 5%	1
23	R10	Resistor	0805 Thick Film SMD Resistor	10KΩ 1/8W 1%	1
24	R13	Resistor	0805 Thick Film SMD Resistor	4.7KΩ 1/8W 5%	1
25	RE	Connector_2PINs		2P 2.54mm Male Connector	1
26	U1	IC_PIC_20pins		80C PIC16F15344 I/SO	1
27	ZD1	Zener Diode	DO-213AB (glass) (ZM4742A, LL-41)	12V 1W 5%	1
Approved					35

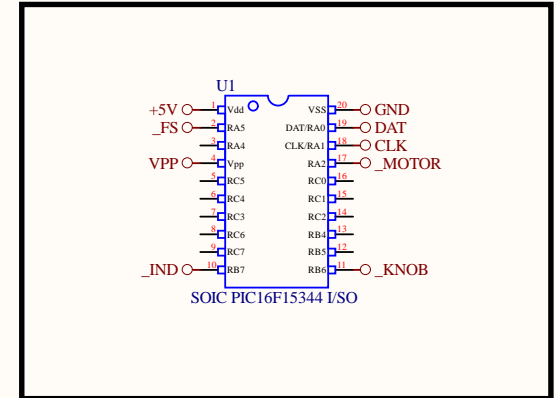
COMPRESSOR



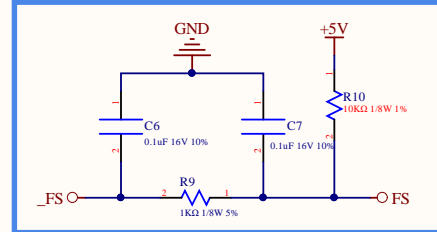
INDICATOR



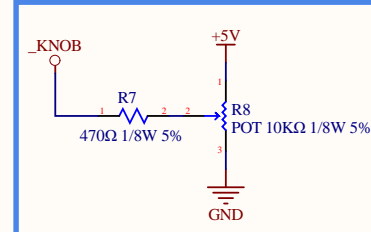
MICROCONTROLLER



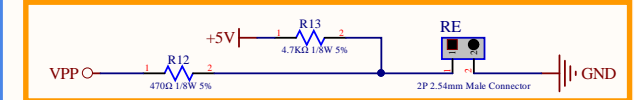
FREEZER_SENSOR_FILTER AND AMPLIFY



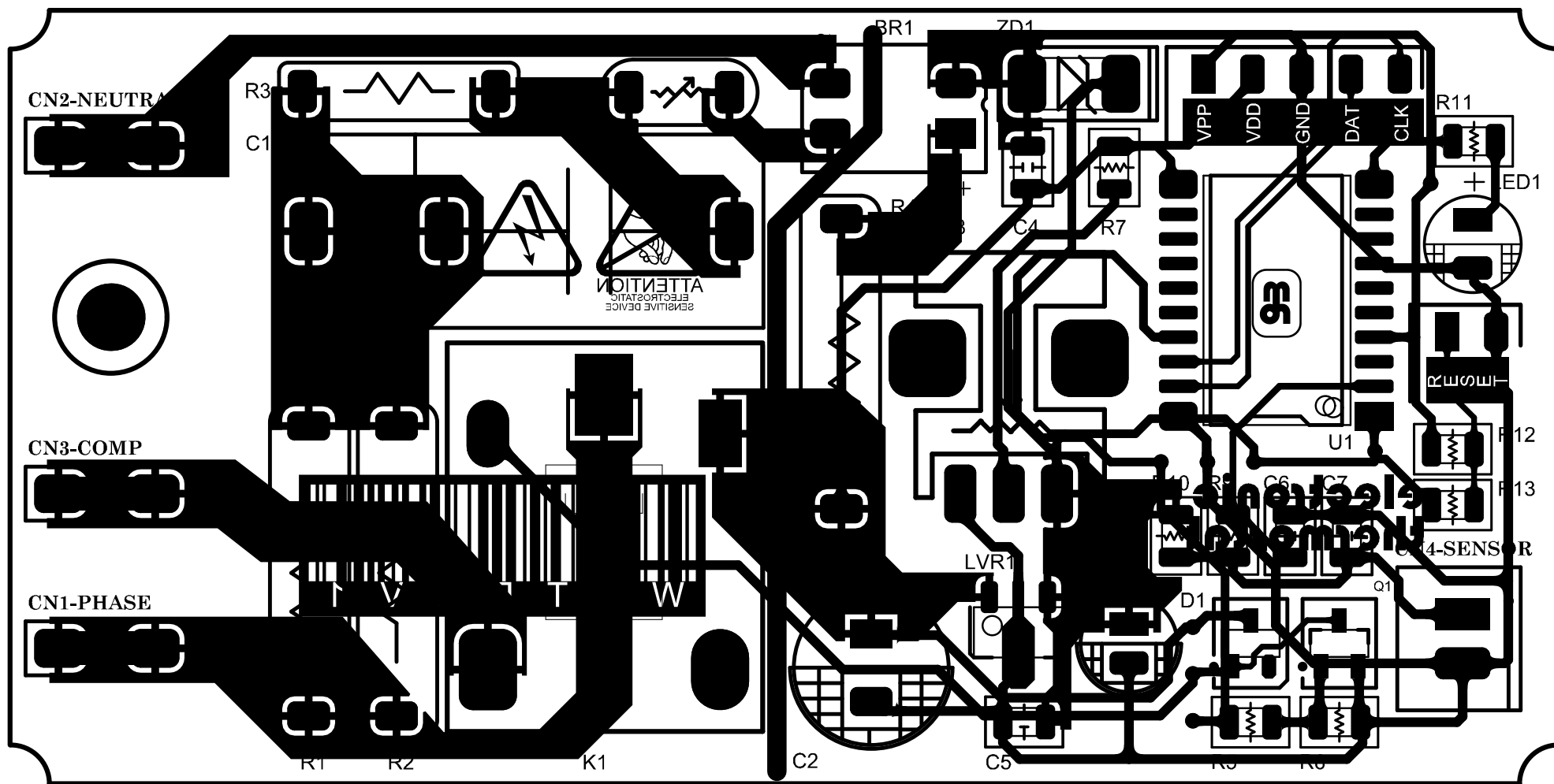
THERMOSTATIC_POSITION



RESET



Title			PROJECT_WETBCV1.PjPcb
Size	Number	Revision	1.1
A4	1		
Date:	09-Jan-20	Sheet	of
File:	D:\RBM_JOB_MATERIALS\...SCH_WETBCV1XX.SchDoc	Drawn By:	Raihan Bin Mofidul



Component list

Bill of Materials for Project [PROJECT_WETBCV1.PrjPcb] (No PCB Document Selected)

Source Data From:

Project:

Variant:

PROJECT_WETBCV1.PrjPcb

PROJECT_WETBCV1.PrjPcb

None

Report Date:

09-Jan-20

9:14 AM

Print Date:

09-Jan-20

9:14:24 AM



#	Designator	LibRef	mn Name Error? Manufacturer	Description	Footprint	Library Name	Comment	Quantity
1	BR1	Bridge Rectifier		BRIDGE RECT 1P 600V 500MA 45°C, ON SEMICONDUCTOR	BR_SMD_MB6S	RBM_SCH-LIB_02-SEP-19.SchLib	MB6S	1
2	C1	Capacitor Non-Polar		0.047 50V 2513 10 9.5-15.5 Climate	C_X2_18X10X15.8_P15	RBM_SCH-LIB_02-SEP-19.SchLib	MKP X2.68uF	1
3	C2	Capacitor Polar		0.05 11mm 3.5mm Pitch	C_Radial_P35	RBM_SCH-LIB_02-SEP-19.SchLib	220uF 25VDC 20%	1
4	C3	Capacitor Polar		0.05 11mm 2mm Pitch	C_Radial_P2	RBM_SCH-LIB_02-SEP-19.SchLib	100uF 16VDC 20%	1
5	C4	Capacitor Non-Polar		0.005 Multilayer Ceramic Capacitor	C_0805	RBM_SCH-LIB_16-Apr-19.SchLib	0.33uF 25V 10%	1
6	C5, C6, C7	Capacitor Non-Polar		0.005 Multilayer Ceramic Capacitor	C_0805	RBM_SCH-LIB_16-Apr-19.SchLib	0.1uF 16V 10%	3
7	CN1-PHASE, CN2-NEUTRAL, CN3-COMMON	Connector 1P1N		4.8mm TAB, 0.8mm thickness	CN_Tab Terminal 187 series (Right Angle)	RBM_SCH-LIB_02-SEP-19.SchLib	187 Series RA TAB	3
8	CN4-SENSOR	Connector 2P1N			CN_B2B-XH-A_WHITE	RBM_SCH-LIB_16-Apr-19.SchLib	A2512WV-2P-Red	1
9	CN5-PROG	Connector PIC_Bun			CN_PIC_MCU_Debugger_Straight	RBM_SCH-LIB_16-Apr-19.SchLib	2.54mm Pins	1
10	D1	Diode		SOT-23-3, Diode 200mA	D_SOT-23-3_200mA	RBM_SCH-LIB_02-SEP-19.SchLib	BAS19	1
11	K1	Relay			K_15ARelay_AZ943-1CH-12DE	RBM_SCH-LIB_16-Apr-19.SchLib	Zettler AZ943-1CH-12DE	1
12	LED1	LED		0.3*5mm, 2.5mm Pitch	LED_3x5_P25	RBM_SCH-LIB_02-SEP-19.SchLib	RED_Vf=3.2V,20mA	1
13	LVR1	Voltage Regulator		SOT-23 Plastic Encapsulate Voltage Regulator	U_CJL78L05_SOT23	RBM_SCH-LIB_16-Apr-19.SchLib	+5VDC 100mA	1
14	NTC1	Thermistor		5mm Pitch	NTC_5mmPitch	RBM_SCH-LIB_02-SEP-19.SchLib	16D-7	1
15	Q1	BJT npn		SOT-23-3, NPN 200mA	Q_SOT-23-3_NPN_BC847	RBM_SCH-LIB_16-Apr-19.SchLib	BC847	1
16	R1, R2	Resistor		Metal Oxide Film Resistor, Through Hole	R_Axial_P15	RBM_SCH-LIB_02-SEP-19.SchLib	220Q 2W 1%	2
17	R3	Resistor		Metal Oxide Film Resistor, Through Hole	R_Axial_P10	RBM_SCH-LIB_02-SEP-19.SchLib	470KQ 1/2W 1%	1
18	R4	Resistor		Metal Oxide Film Resistor, Through Hole	R_Axial_P15	RBM_SCH-LIB_02-SEP-19.SchLib	33Q 1W 1%	1
19	R5, R9	Resistor		0.005 Thick Film SMD Resistor	R_0805	RBM_SCH-LIB_16-Apr-19.SchLib	1KQ 1/8W 5%	2
20	R6	Resistor		0.005 Thick Film SMD Resistor	R_0805	RBM_SCH-LIB_16-Apr-19.SchLib	47KQ 1/8W 5%	1
21	R7, R11, R12	Resistor		0.005 Thick Film SMD Resistor	R_0805	RBM_SCH-LIB_02-SEP-19.SchLib	470Q 1/8W 5%	3
22	R8	POT		3Pin Potentiometer HRX09	R_POT	RBM_SCH-LIB_02-SEP-19.SchLib	POT 10KQ 1/8W 5%	1
23	R10	Resistor		0.005 Thick Film SMD Resistor	R_0805	RBM_SCH-LIB_16-Apr-19.SchLib	10KQ 1/8W 1%	1
24	R13	Resistor		0.005 Thick Film SMD Resistor	R_0805	RBM_SCH-LIB_16-Apr-19.SchLib	4.7KQ 1/8W 5%	1
25	RE	Connector 2P1N			CN_PIC_MCU_Reseter_Straight	RBM_SCH-LIB_02-SEP-19.SchLib	2P 2.54mm Male Connector	1
26	U1	IC_PIC_20pins			U_PIC16F15344_SOC	RBM_SCH-LIB_16-Apr-19.SchLib	SOC PIC16F15344 I/SO	1
27	ZD1	Zener Diode		DO-213AB (glass) (ZM4742A LL-41)	ZD_ZM4742A LL-41	RBM_SCH-LIB_02-SEP-19.SchLib	12V 1W 5%	1

Approved	Notes	35