

Bill of Materials for Team 13, Thermal controlled system

source file: Group 13 Layout v3.sht

Last Modified : 12/3/18

PCB version : 3

P/DNP = Place/Do not Place Component

BOM revision : 2

Count	Part reference	P/DNP	MFG	MFG PN	Description	Distributor	Dist. PN	Cost each	Cost Ext.
2	R1,R2	P			22ohm, RESISTOR	EPL		0.2	0.4
1	LM35CZ	P	Kookye		LM35 Temperature Sensor	Amazon		0.5	0.5
4	C1,C4,C5,C6,C7	P			0.1uF Capacitor	EPL		0.2	0.8
2	R3,R5	P			1k Resistor	EPL		0.2	0.2
1	LED1	DNP			Orange LED	EPL		0.1	0.1
1	K1351	P	Kemet		Relay	EPL		2.2	2.2
1	PWR	P			Green LED	EPL		0.1	0.1
1	L	DNP			Red LED	EPL		0.1	0.1
1	X3	P			XTAL Crystal, 16Mhz	Digi Key		1.2	1.2
2	C2,C3	P			18pF Capacitor	EPL		0.2	0.4
1	CN1	P			USB	Monoprice		1.5	1.5
1	C1	P			Atmega32U4	Atmel		5.5	5.5
4	Upbtn,Downbtn,C/F,BOOT	P	Spark Fun		Push button	Digi Key		0.2	0.8
1	NCP1117	P	ON semiconductor		IC Voltage regulator	Digi Key		0.9	0.9
1	Mini B USB	P	Molex, LLC		USB mini B	Digi Key		1.53	1.53
1	PCB	P			PCB	OSH Park		13.5	13.5
1	Fan	P			Fan	Delta electronics		3.75	3.75
								Total cost	33.48