

A

A

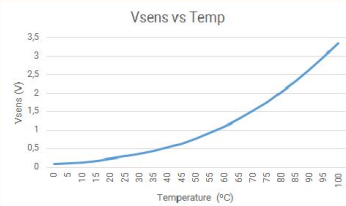
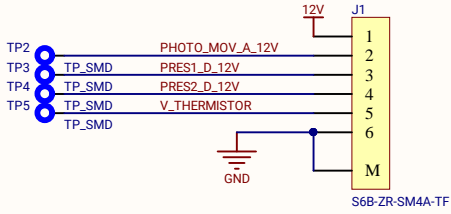
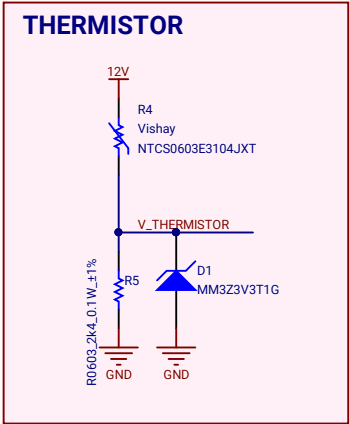
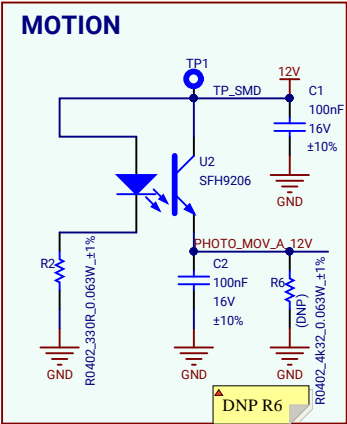
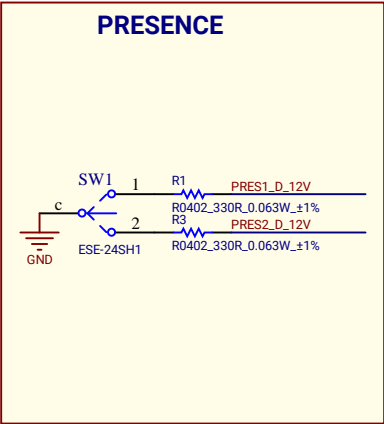
B

B

C

C

D

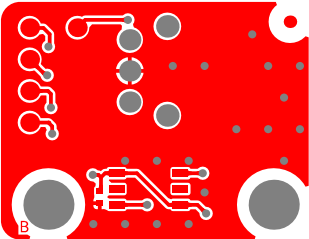


Resistor 2k4 provides:

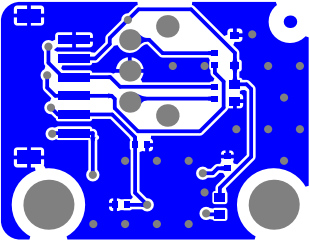
- Near 0Ohm for Temp below 0°C
- Maximum temperature measured 100°C
- Better measurement on the interesting areas, around 50°C to 70°C than in lower temperatures.

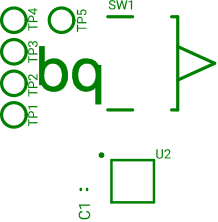


Title			Clapton. Filament Sensor v2		
Project			Clapton Filament Sensor v2.Pr		
Author			bq		
Size: A4	Number: 1	Revision: 1.A.2			
Date: 24/04/2018	Time: 17:03:10	Sheet 1 of 1			



B





pd

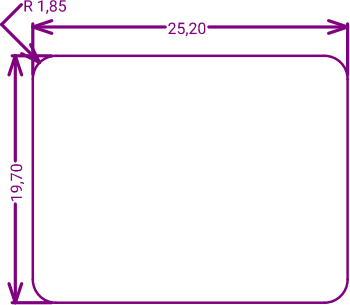
D1 \square \vdash R_2 R_3 \vdash R_4
R1 \vdash

$\vdash C5$

REV. J. B
Filament
 \vdash
Re

4

2



Designator	Description	Quantity	Manufacturer	OrderingCode	Manufacturer 2	OrderingCode 2	Footprint	Value
C1, C2	C0402_100nF_16V_±10%_X7R	2	Kemet	C0402C104K4RAC	Samsung	CL05B104K05NNNC	C0402	100nF ±10% 16V
D1	Zener Diode 3.3V 0.3W	1	On Semi	MM3Z3V3T1G			SOD323	3.3V
J1	1x6 JST SideBox ZR Series	1	JST	S6B-ZR-SM4A-TF(LF)(SN)			S6B-ZR-SM4A-TF	6
R1, R2, R3	R0402_330R_0.063W_±1%	3	Vishay	CRCW0402330RFK	Yageo	RC0402FR-07330RL	R0402	330R ±1% 0.063W
R4	NTC	1	Vishay	NTCS0603E3104JXT			R0603	100k ±5 0,125W
R5		1	Vishay	CRCW06032K40FK			R0603	2k4 ±1% 0.1W
SW1	2W Detector Switch	1	Panasonic	ESE-24SH1			ESE24SH1	
U2	Phototransistor	1	OSRAM	SFH9206			SFH9206	