

Laborator termistoare,varistoare

Tabelul 1

Nr. Crt.	Nume Ref.	Tip termistor	R_{25} [Ω]	B [K]	P_{25} [W]	D [mW/K]	T [s]
1.	NTC1	EPCOS K164 470 Ω	470	3450	450	7.5	20
2.	NTC2	EPCOS K164 1k Ω	1000	3730	450	7.5	20

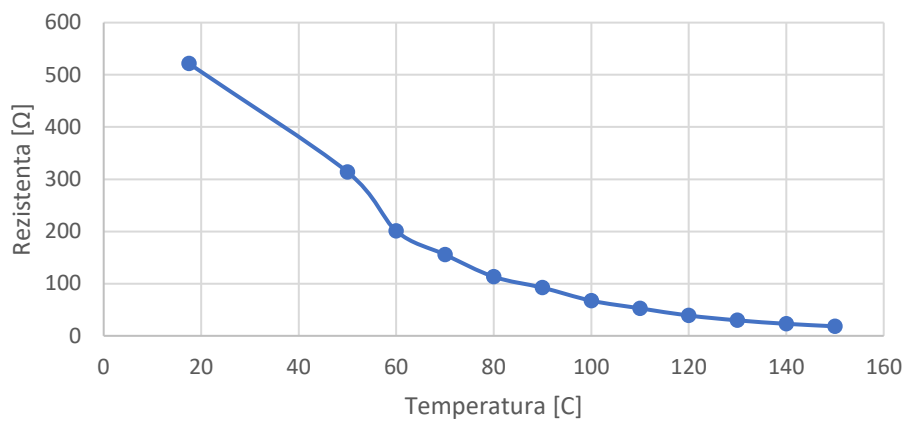
Tabelul 2

Nr. Crt.	Nume Ref.	Tip termistor	R_N [Ω]	U_N [V]	$T_{ref.}$ [$^{\circ}$ C]
1.	PTC1	PTC265V 80 $^{\circ}$ 150 Ω (EPCOS C890)	150	230	80
2.	PTC2	PTC30V13 (EPCOS C995)	13	12.24	120

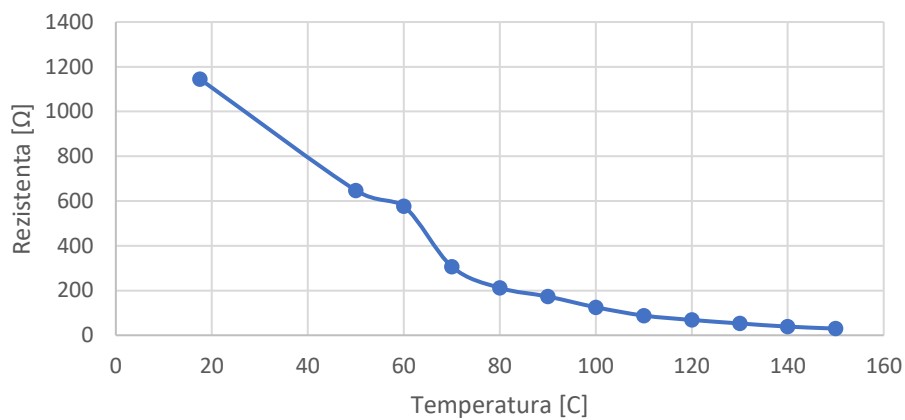
Tabelul 3

Nr. crt.	Temperatura [$^{\circ}$ C]	Rezistența NTC1 [Ω]	Rezistența NTC2 [Ω]	Rezistența PTC1 [Ω]	Rezistența PTC2 [Ω]	R1 [k Ω]	R2 [k Ω]
1	θ ambiantă	521.45	1145.53	140.923	14.694	9.9669	56.526
2	50	313.906	647.56	165.303	12.809	9.9655	56.277
3	60	200.837	577.15	211.236	12.432	9.9654	56.194
4	70	155.589	306.894	302.806	12.254	9.964	55.928
5	80	113.243	211.728	522.66	12.189	9.9598	56.052
6	90	92.290	173.126	1190.78	12.292	9.9586	55.772
7	100	67.424	125.232	4439.12	12.779	9.9554	55.484
8	110	52.769	87.942	18249.6	14.102	9.9527	55.339
9	120	38.895	68.437	76011	18.676	9.9498	55.106
10	130	29.687	52.769	310.737	82.775		54.922
11	140	23.060	38.635	$9843 \cdot 10^5$	274.408	9.9512	54.743
12	150	18.236	29.771	$24731 \cdot 10^5$	815.42	9.9456	54.561

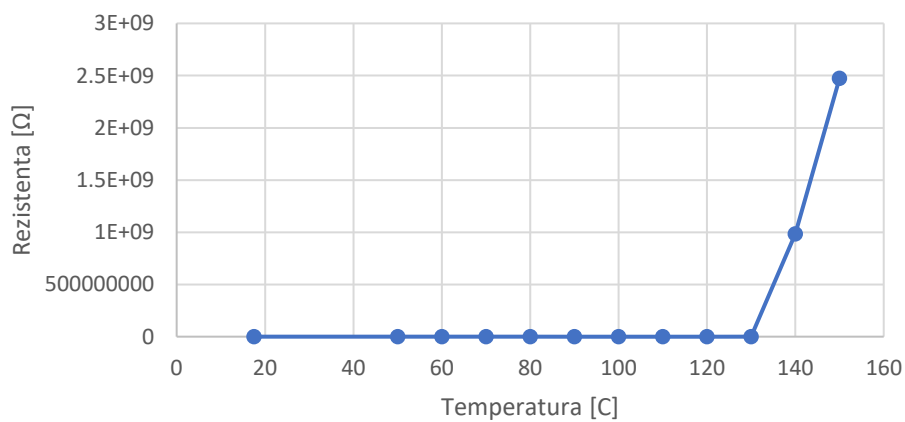
Variatia rezistentei in functie de temperatura
pentru NTC1

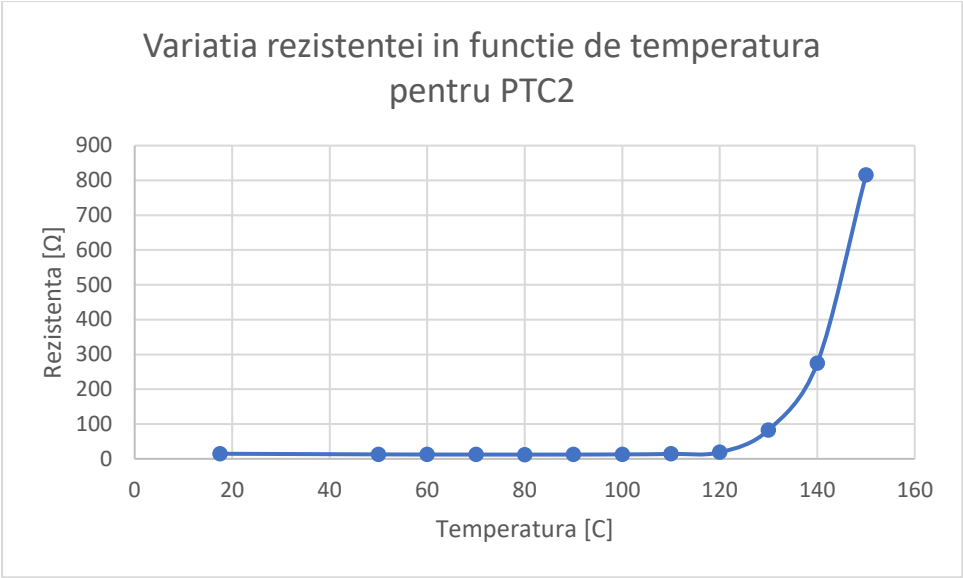


Variatia rezistentei in functie de temperatura
pentru NTC2



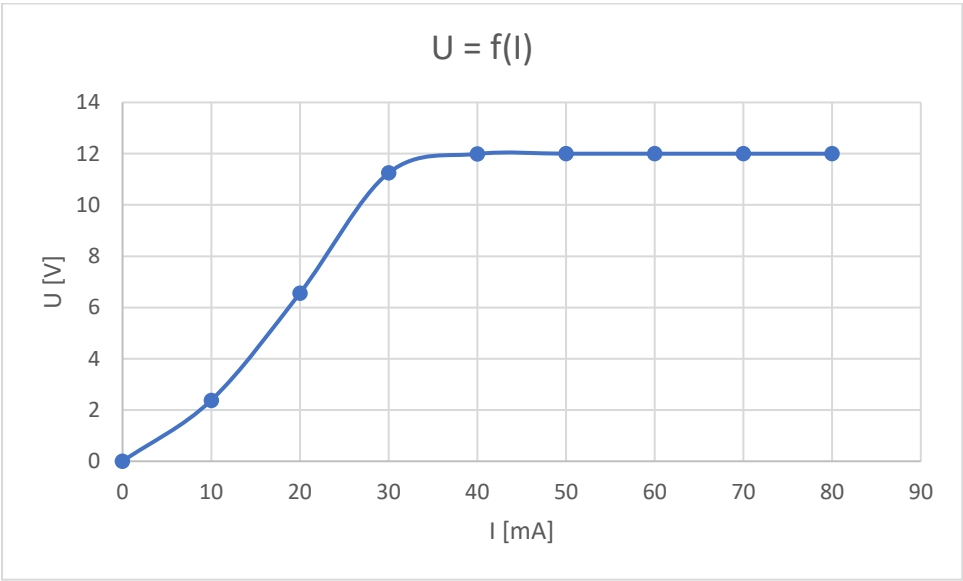
Variatia rezistentei in functie de temperatura
pentru PTC1





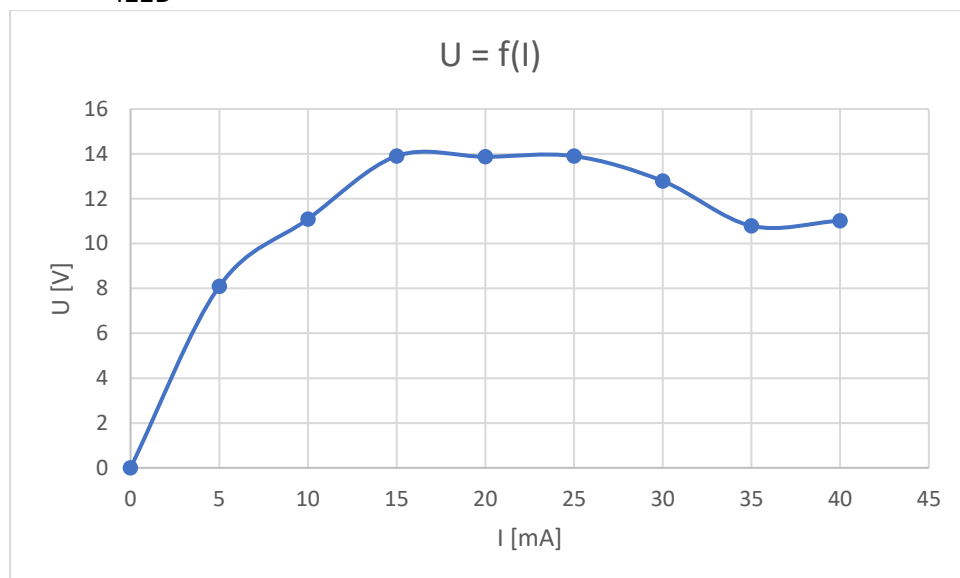
Tabelul 4a **NTC1**

I [mA]	0	10	20	30	40	50	60	70	80
U [V]	0	2.38	6.56	11.25	11.99	12	12	12	12



Tabelul 4b **NTC2**

I [mA]	0	5	10	15	20	25	30	35	40
U [V]	0	8.09	11.09	13.9	13.87	13.9	12.79	10.79	11.02



Tabelul 5

	VDR1									
I _v [mA]	-6	-4	-2	-1	0	0.4	1	2	4	6
U _v [V]	-48	-46	-44	-43	0	42	43	44	45	49
	VDR2									
I _v [mA]										
U _v [V]										

Tabelul 6 Datele termistorului polimeric

Nr. crt.	Curentul de reținere (hold) I _H (A)	Curentul de salt (trip) I _T (A)	Timpul maxim de salt (s) la 5xI _H	Pd (W)	Rezistența inițială R min. R max.		Rezistența Post-trip R1 max. ()
RXE030	0.30	0.60	3.0	0.49	0.88	1.33	2.10