



NTC Thermistor





www.joinset.com

19B-11L, Panwol Industrial Complex, 606-1, Sungkok-Dong, Ansan City, Kyunggi-Do, 425-110, Korea Tel.) 82-31-495-2601 [ext. 213]

Fax) 82-31-495-2693

E-mail) lights@joinset.com

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1. NTC Thermistor ?

1) Thermistor : Thermally sensitive Resistor

* ,

*

* : NTC Thermistor or PTC Thermistor

2) NTC Thermistor : Negative Temperature Coefficient of Thermistor

* Mn3O4, NiO, Co3O4, Fe2O3

3)

* : , ,

가

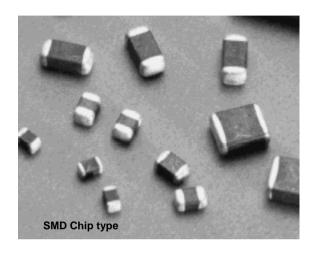
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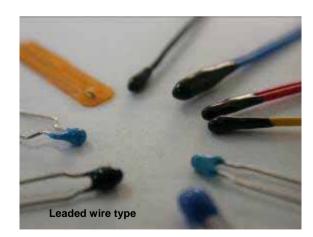
a. : , IC, TCXO, LCD

b. : ,

C. : ,

e. : CPU





2.

1) R₂₅ : 25 2) R₈₅ : 85

3) B

a. 25 , 가 t

,

b. B25 /50 B25 /85 , [K,

 $B_{25/t}[K] = Ln(R_{25}/R_t)/(1/T_{25}-1/T_t)$

 $T_{25} = 273.15 + 25 [K],$ [, Kelvin]

4) :

a. 1 [mW]

b. , ,

5)

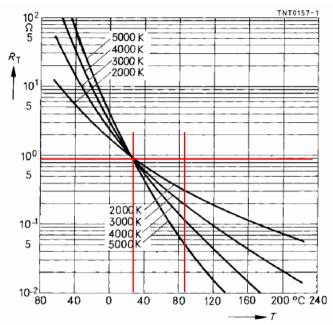
[25] [125]

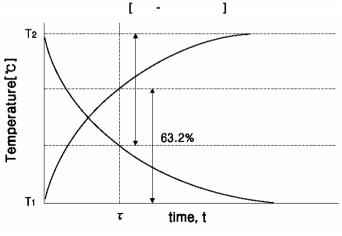
6)

a. 가

b. 가 ,

63.2%





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3.

1) [TCXO, Temperature Compensated X'tal Oscillator]

- AT-Cut : ±30ppm, -40 ~ 85

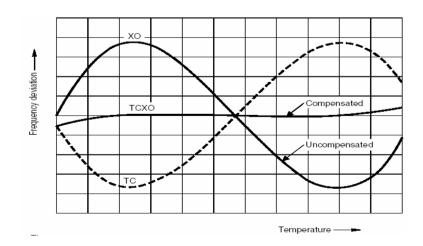
- : ±2.5ppm

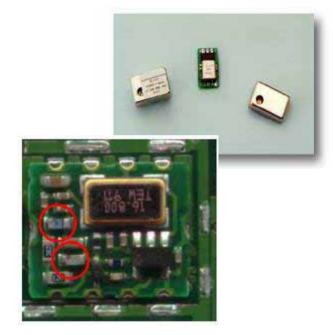
- 가 [R-C]

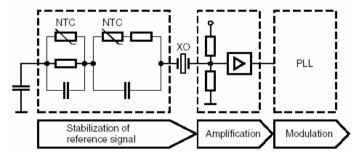
*

* NTC Thermistor RC

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Region	R25	B25 /85	Туре
Low Temp	22~150[]	3150K±3%	1005/1608
High Temp	1.0~6.8[k]	4100K±3%	

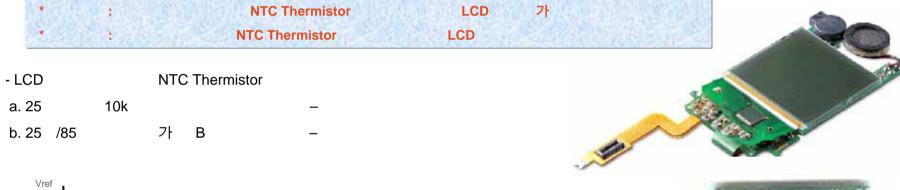
가

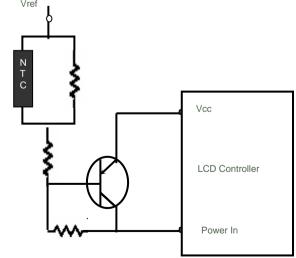


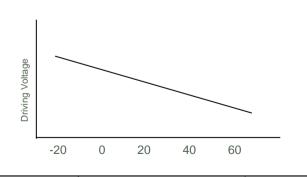
2) LCD module

- LCD[Liquid Crystal Display,] [液晶] 가

- NTC Thermistor , LCD







R25	B25 /85	Туре
47k ~1.0M	4100K ± 1%,3%	1005/1608/2012
	4750K ± 1%,3%	



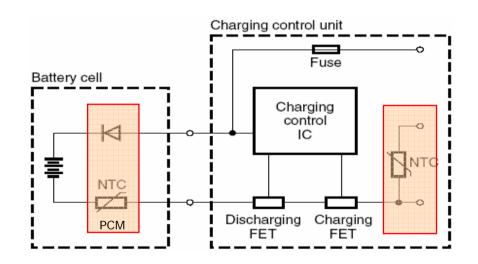
3) 2

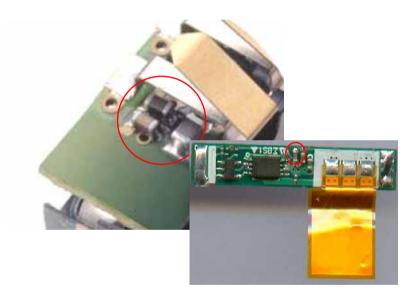
- Li-ion 2

NTC Thermistor

Pack

, PCM [Protect circuit module]





R25	B25 /85	Туре
10k ~100k	3435K ± 1%, 3%	1005/1608/2012
	4550K ± 1%,3%	