

## ALTERATION RECORD

Revised No.	Date	Revised Page No.	Note	Drafter	Appr. by
1 st	APR. 26, 2001		Original drafted KP仕 20293	R. Hashimoto	K. Koshimizu
2 nd					
3 rd					
4 th					
5 th					
6 th					
7 th					
8 th					
9 th					
10th					
11th					

Title:  
THERMISTOR TYPE PT3-25E2-S2

Drafter  
R. Hashimoto

Appr. by  
K. Koshimizu

Dwg. No. 0/2  
TE1315-1

## SPECIFICATION

## THERMISTOR, TYPE PT3-25E2-S2

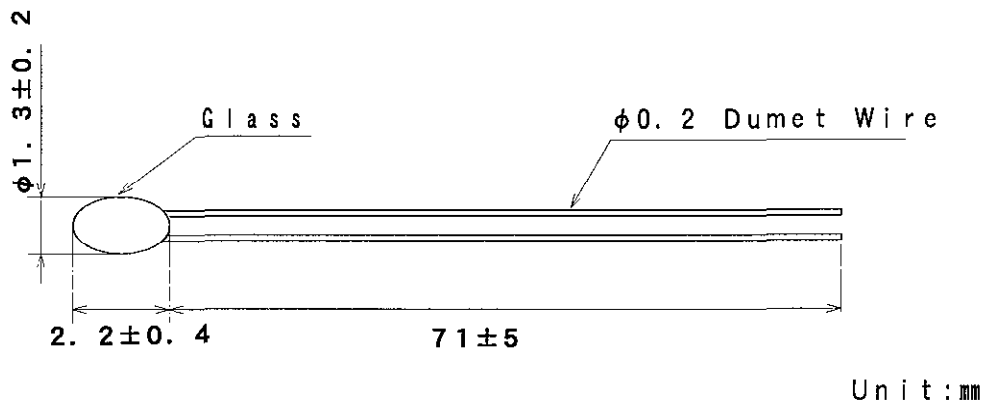
## 1. Scope

This specification deals with shape, dimensions, characteristics, inspection standard etc. of type PT3-25E2-S2.

## 2. Specifications

2. 1 Element : Thermistor, type PSB-S3

2. 2 Shape and dimensions



## 2. 3 Characteristics

(1) Electrical characteristics

(a) Resistance value :  $R = 0.55 \text{ k}\Omega \pm 5\%$  (at 200°C)

(b) B value :  $B = 4300 \text{ K} \pm 3\%$   
(calculated from resistance value at 100°C and 200°C)

(c) Insulation resistance 10M $\Omega$  or over by DC50V megger  
(between glass and lead wire)

(2) Thermal time constant ( $\tau$ ) :  $\tau = 3.5 \sim 6.5 \text{ s}$  (in still air)

(3) Thermal dissipation constant ( $\delta$ ) :  $\delta = 0.7 \sim 0.9 \text{ mW/}^\circ\text{C}$  (in still air)

(4) Operating temperature range :  $-50 \sim +300 \text{ }^\circ\text{C}$

Title:  
THERMISTOR TYPE PT3-25E2-S2

Drafter  
R. Hashimoto

Appr. by  
K. Koshimizu

Dwg. No. 1/2  
TE1315-1

## 3. Outgoing Inspection

- (1) The product shall be inspected at every delivery lot inspection items, sampling quantities and sampling acceptable standard are as follows.

Inspection Item	Sampling acceptable Standard	Remarks
Resistance value	n=20, Ac=0, Re=1	2. 3 (1) (a)
B-value	n=10, Ac=0, Re=1	2. 3 (1) (b)
Insulation Resistance	n=5, Ac=0, Re=1	2. 3 (1) (c)
Shape & dimensions	n=5, Ac=0, Re=1	2. 2
Appearance	n=5, Ac=0, Re=1	2. 2

## (2) Inspection data

Inspection data will be issued for pay upon request.

## 4. Packing

Packing shall be done not to cause damage or soil during delivery.

Title: THERMISTOR TYPE PT3-25E2-S2	Drafter R. Hashimoto	Appr. by <i>K. Kashimizu</i>	Dwg. No. 2/2 TE1315-1
---------------------------------------	-------------------------	---------------------------------	--------------------------

承認 西 96.9.11 78	PT3-25E2	図番 PRT22319	
調査 前 96.9.11 田(津)		頁 1 / 1	第 1 版
起草 田	抵抗温度規格範囲	分類	

温度 °C	下限値 kΩ	基準値 kΩ	上限値 kΩ
0.0	256.3	329.4	422.3
5.0	200.1	255.0	324.1
10.0	157.4	198.9	250.8
15.0	124.7	156.3	195.6
20.0	99.44	123.8	153.6
25.0	79.84	98.63	121.5
30.0	64.51	79.13	96.81
35.0	52.44	63.87	77.61
40.0	42.87	51.87	62.60
45.0	35.24	42.36	50.80
50.0	29.12	34.79	41.46
55.0	24.19	28.72	34.02
60.0	20.19	23.83	28.06
65.0	16.93	19.87	23.26
70.0	14.26	16.64	19.38
75.0	12.06	14.00	16.22
80.0	10.25	11.83	13.63
85.0	8.740	10.04	11.51
90.0	7.484	8.556	9.757
95.0	6.432	7.318	8.305
100.0	5.547	6.282	7.096
105.0	4.801	5.412	6.085
110.0	4.169	4.679	5.238
115.0	3.632	4.059	4.524
120.0	3.174	3.532	3.920
125.0	2.782	3.083	3.408
130.0	2.446	2.700	2.972
135.0	2.156	2.371	2.600
140.0	1.906	2.088	2.281
145.0	1.690	1.844	2.006
150.0	1.502	1.632	1.770
155.0	1.338	1.449	1.566
160.0	1.195	1.289	1.388
165.0	1.069	1.150	1.234
170.0	0.9592	1.028	1.100
175.0	0.8624	0.9217	0.9826
180.0	0.7770	0.8278	0.8797
185.0	0.7015	0.7451	0.7894
190.0	0.6347	0.6720	0.7098
195.0	0.5753	0.6074	0.6396
200.0	0.5225	0.5500	0.5775

$R(200^{\circ}\text{C}) = 0.55 \text{ k}\Omega \pm 5 \%$

$B(100/200) = 4300 \text{ K} \pm 3 \%$

96年 09月 11日

**盛 芝 浦 電 子 製 作 所**