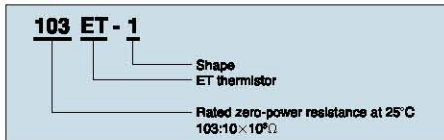


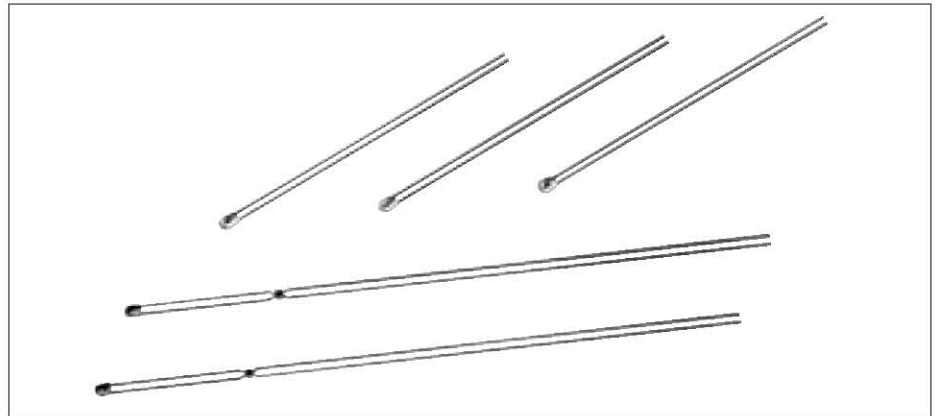
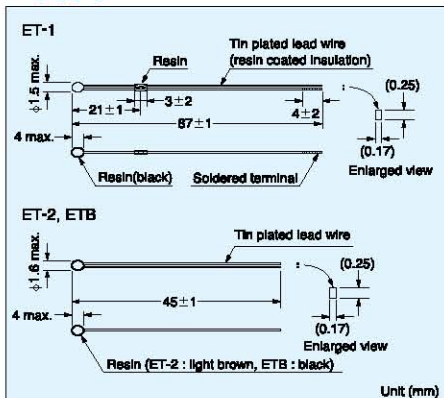
ET THERMISTOR

The ET thermistor is smaller version of the AT thermistor. Its fast response time and high reliability makes it particularly suitable for use in medical equipment and thermometers. Manufactured by full-automated production line, all ET thermistors have identical size and that makes it possible to assemble sensors automatically.

Part number



Dimensions



Specifications

Part No.	R ₂₅ *1	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant (s)*3	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range (°C)
402ET-1(2)	4.0kΩ ± 3%	3100K ± 1%	0.7	6	3.5	-40 ~ +90
103ET-1(2)	10.0kΩ ± 3%	3250K ± 1%				-40 ~ +100
303ET-1(2)	30.0kΩ ± 3%	3760K ± 1%				-40 ~ +100
403ET-1(2)	40.0kΩ ± 3%	3525K ± 1%				-40 ~ +100
413ET-1(2)	41.0kΩ ± 3%	3435K ± 1%				-40 ~ +100
503ET-1(2)	50.0kΩ ± 3%	4055K ± 1%				-40 ~ +100
593ET-1(2)	59.0kΩ ± 3%	3617K ± 1%				-40 ~ +100
833ET-1(2)	83.0kΩ ± 3%	4013K ± 1%				-40 ~ +100
104ET-1(2)	100.0kΩ ± 3%	4132K ± 1%				-40 ~ +100
224ET-1(2)	226.0kΩ ± 3%	4021K ± 1%				-40 ~ +100
234ET-1(2)	232.0kΩ ± 3%	4274K ± 1%				-40 ~ +100
103ETB	10.0kΩ ± 2%	3435K ± 1%				-40 ~ +90

*1 R₂₅: Rated zero-power resistance value at 25°C.
 *2 B value: determined by rated zero-power resistance at 25°C and 85°C.
 *3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

Resistance-Temperature

Temperature (°C)	Type											
	402ET	103ET	303ET	403ET	413ET	503ET	593ET	833ET	104ET	224ET	234ET	103ETB
-40	57.71	170.9	810.7	833.3	772.8	1602	1318	2664	3325	7005	9046	204.7
-30	35.34	102.2	445.1	481.1	456.5	855.0	754.3	1421	1769	3784	4680	118.5
-20	22.38	63.07	253.7	287.5	277.9	474.4	445.8	788.5	977.5	2116	2515	71.02
-10	14.60	40.08	149.8	177.2	174.1	272.7	271.7	453.0	559.0	1225	1401	43.67
0	9.797	26.16	91.30	112.4	111.7	161.9	170.1	269.3	329.8	730.1	808.2	27.70
10	6.737	17.51	57.31	73.00	73.63	99.13	109.4	164.8	200.5	447.8	480.2	18.07
20	4.736	11.99	37.00	48.61	49.57	62.38	72.10	103.6	125.3	282.1	293.7	12.11
30	3.394	8.387	24.47	33.08	34.08	40.24	48.55	66.91	80.27	182.1	184.4	8.301
40	2.476	5.988	16.56	22.96	23.89	26.58	33.41	44.18	52.62	120.3	118.6	5.811
50	1.835	4.353	11.45	16.26	17.06	17.93	23.44	29.80	35.23	81.07	78.00	4.147
60	1.378	3.217	8.070	11.70	12.38	12.33	16.73	20.51	24.00	55.75	52.39	3.011
70	1.049	2.414	5.791	8.569	9.135	8.588	12.15	14.37	16.59	39.01	35.87	2.224
80	0.7997	1.836	4.222	6.367	6.838	6.064	8.951	10.24	11.64	27.78	24.99	1.668
90	0.6145	1.416	3.125	4.797	5.190	4.338	6.697	7.419	8.287	20.10	17.72	1.267
100			2.346	3.662	3.990	3.142	5.077	5.459		14.75	12.75	

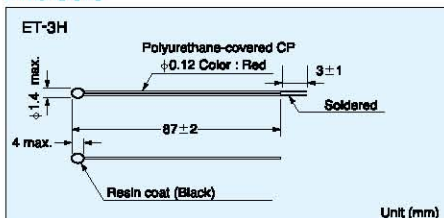
Unit (kΩ)

Specifications

Part No.	R ₃₇ *1	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant (s)*3	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range (°C)
503ET-3H87L-20073	29.615kΩ ~ 30.263kΩ	3944K ± 0.5%	0.7	0.8	3.5	-40 ~ +100

*1 R₃₇: Rated zero-power resistance value at 37°C.
 *2 B value: determined by rated zero-power resistance at 30°C and 45°C.
 *3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in oil.

Dimensions



Tolerance of the group : ± 0.09% /group

Group	Resistance(kΩ)	Group	Resistance(kΩ)
C	29.615/29.641/29.667	I	29.937/29.964/29.991
D	29.668/29.695/29.721	J	29.992/30.018/30.045
E	29.722/29.749/29.775	K	30.046/30.073/30.100
F	29.776/29.802/29.828	L	30.101/30.127/30.154
G	29.829/29.856/29.883	M	30.155/30.182/30.209
H	29.884/29.910/29.936	N	30.210/30.237/30.263

Notes : Min./Center/Max.