

SURFACE MOUNT TYPE THERMISTOR

HT THERMISTOR

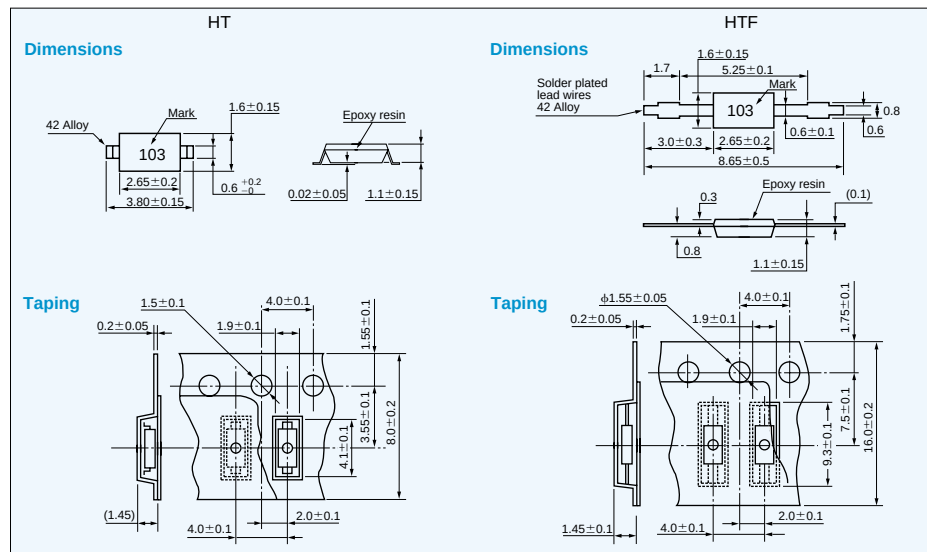
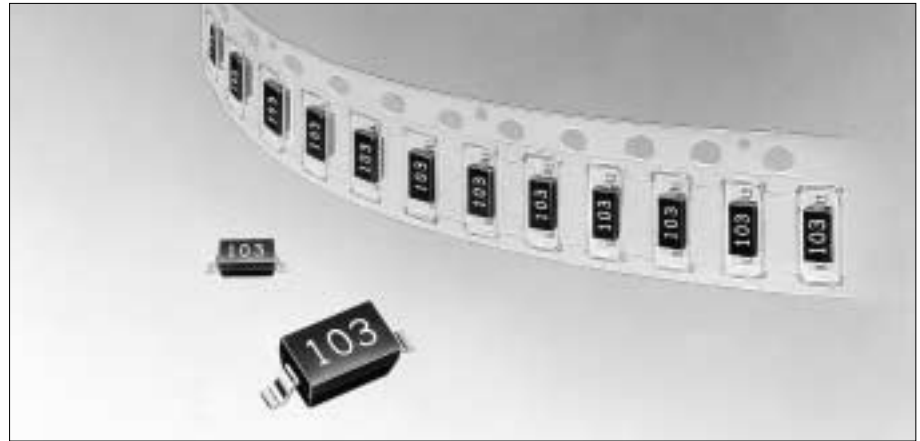
HT thermistors are entirely new type of thermistor for surface mounting (by reflow soldering) and were acquired from advanced technology.

Our HT thermistors are adapted metal electrodes packaged in a resin mold, unlike conventional chip thermistors, and can offer $\pm 2\%$ tolerance for a resistance value at 25°C.

HT series (SMD Thermistor) is not only compact-surface mounting type but also highly accurate and reliable.

Part number

103 HT-□□-TP	
103	HTF only
HT	Tolerance of R ₂₅
□□	1P : $\pm 1\%$ 2P : $\pm 2\%$
TP	Shape
	Rated zero-power resistance at 25°C 103 : 10k Ω



Specifications

Minimum quantity: 3000pcs/reel Unit (mm)

Part No.	R ₂₅ *1	B value*2	Dissipation factor (mW/°C)	Thermal time constant (s)*3	Rated power at 25°C (mW)	Operating temp. range (°C)
302HT(F)	3.0k $\Omega \pm 2\%$	3860K $\pm 1\%$	1.0	8.0	5.0	-50~125
502HT(F)	5.0k $\Omega \pm 2\%$	3860K $\pm 1\%$	1.0	8.0	5.0	-50~125
103HT(F)	10.0k $\Omega \pm 2\%$	3435K $\pm 1\%$	1.0	8.0	5.0	-50~100
203HT(F)	20.0k $\Omega \pm 2\%$	3760K $\pm 1\%$	1.0	8.0	5.0	-50~125
303HT(F)	30.0k $\Omega \pm 2\%$	3760K $\pm 1\%$	1.0	8.0	5.0	-50~125
503HT(F)	50.0k $\Omega \pm 2\%$	4055K $\pm 1\%$	1.0	8.0	5.0	-50~125
104HT(F)	100.0k $\Omega \pm 2\%$	4390K $\pm 1\%$	1.0	8.0	5.0	-50~125

*1 R₂₅: Rated zero-power resistance value at 25°C, $\pm 1\%$ and 3% are also available.

*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							Temperature (°C)	Type						
	302HT	502HT	103HT	203HT	303HT	503HT	104HT		302HT	502HT	103HT	203HT	303HT	503HT	104HT
-50	182.1	303.4	367.7	1026	1539	3135	9584	50	1.109	1.849	4.147	7.632	11.45	17.93	32.51
-40	93.35	155.6	204.7	540.5	810.8	1602	4572	60	0.7744	1.291	3.011	5.380	8.070	12.33	21.61
-30	49.85	83.09	118.5	296.7	445.1	855.0	2282	70	0.5513	0.9189	2.224	3.861	5.792	8.588	14.66
-20	27.75	46.25	71.02	169.2	253.8	474.4	1191	80	0.4000	0.6667	1.668	2.815	4.223	6.064	10.13
-10	16.02	26.70	43.67	99.85	149.8	272.7	647.2	90	0.2951	0.4918	1.267	2.083	3.125	4.338	7.135
0	9.541	15.90	27.70	60.87	91.31	161.9	365.0	100	0.2210	0.3683	0.9753	1.564	2.346	3.142	5.111
10	5.876	9.793	18.07	38.21	57.32	99.13	212.5	110	0.1680	0.2800		1.190	1.785	2.302	3.720
20	3.728	6.214	12.11	24.66	36.99	62.38	127.7	120	0.1295	0.2158		0.9159	1.374	1.705	2.746
30	2.431	4.051	8.301	16.31	24.47	40.24	78.88	125	0.1142	0.1903		0.8067	1.210	1.472	2.371
40	1.623	2.705	5.811	11.04	16.56	26.58	50.03								

Unit (k Ω)