

SURFACE MOUNT TYPE THERMISTOR

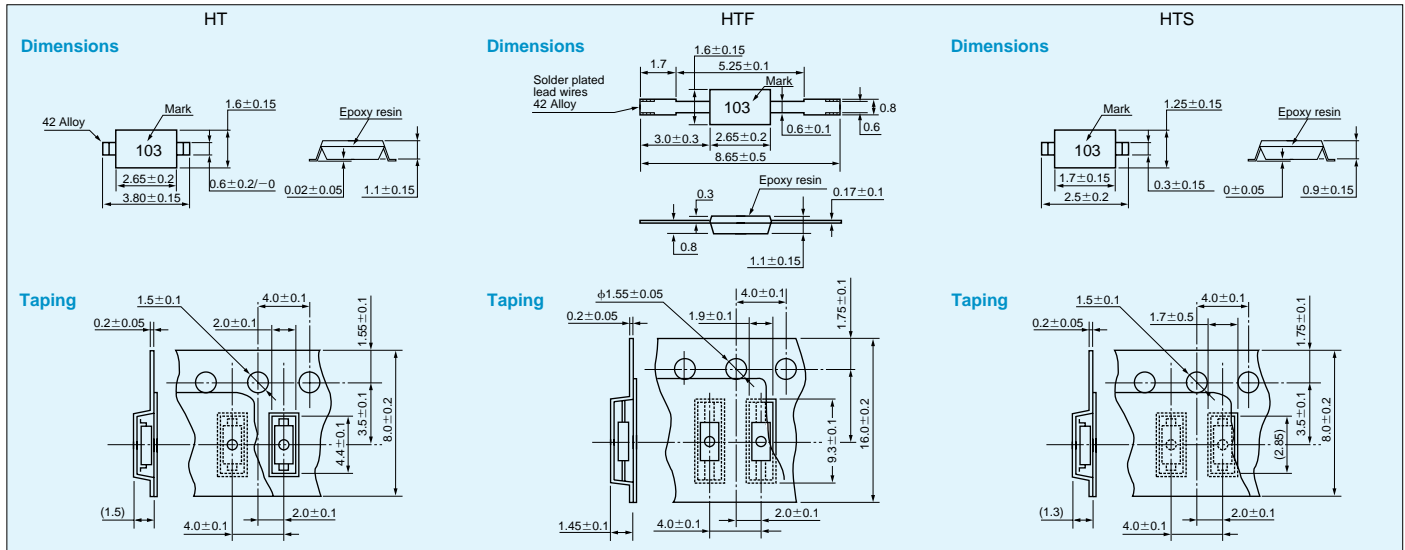
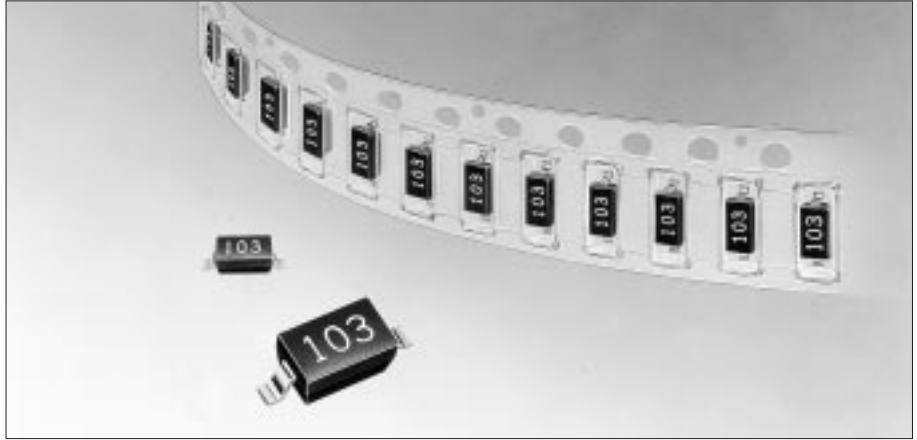
HT THERMISTOR

HT thermistors are an entirely new type of thermistor for surface mounting (by reflow soldering) and were acquired from breakthrough advancements in 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 as well as highly reliable.

Part number

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



Minimum quantity: 3000pcs/reel Unit (mm)

Specifications

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
103HTS	10.0k $\Omega \pm 2\%$	3435K $\pm 1\%$	1.0	6.0	5.0	-50~100
503HTS	50.0k $\Omega \pm 2\%$	4055K $\pm 1\%$	1.0	6.0	5.0	-50~125
104HTS	100.0k $\Omega \pm 2\%$	4390K $\pm 1\%$	1.0	6.0	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)