

# SURFACE MOUNT TYPE THERMISTOR

## HT THERMISTOR

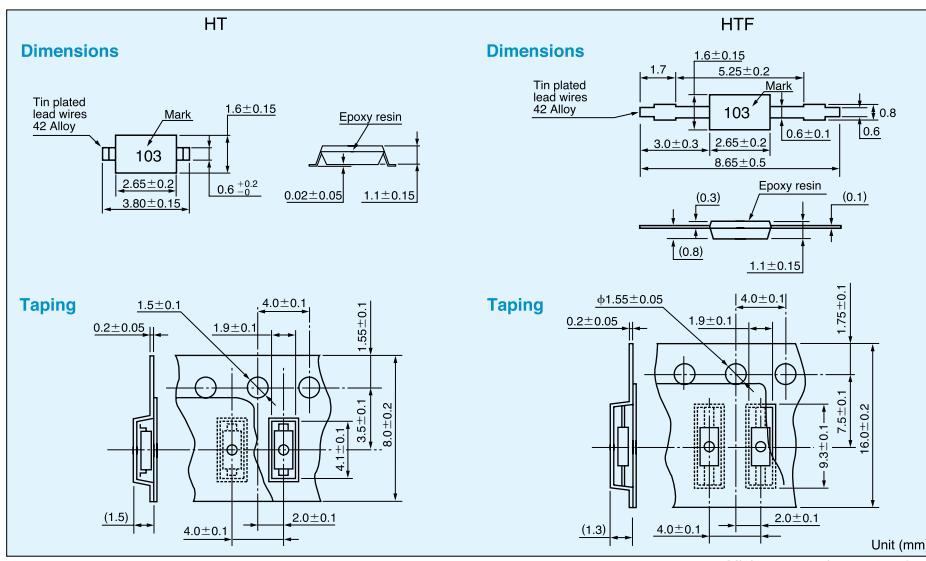
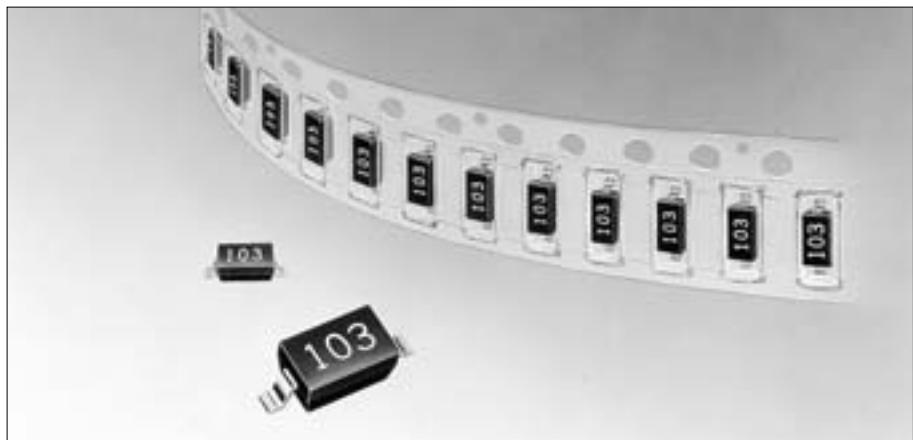
HT thermistors are entirely new type of thermistor for surface mounting (by reflow soldering) and were acquired from advanced technology.

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  $25^\circ\text{C}$ .

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

### Part number

103	HT-TP
Taping HTF only	
Shape	
Rated zero-power resistance at $25^\circ\text{C}$ 103: $10 \times 10^3 \Omega$	



Minimum quantity: 3000pcs/reel

### Specifications

Part No.	$R_{25}^{*1}$	B value <sup>*2</sup>	Dissipation factor (mW/ $^\circ\text{C}$ ) Approx.	Thermal time constant(s) <sup>*3</sup> Approx.	Rated maximum power dissipation (at $25^\circ\text{C}$ )(mW)	Category temp. range( $^\circ\text{C}$ )
302HT(F)	$3.0\text{k}\Omega \pm 2\%$	$3860\text{K} \pm 1\%$	1.0	8.0	5.0	$-50 \sim +125$
502HT(F)	$5.0\text{k}\Omega \pm 2\%$	$3860\text{K} \pm 1\%$				$-50 \sim +100$
103HT(F)	$10.0\text{k}\Omega \pm 2\%$	$3435\text{K} \pm 1\%$				$-50 \sim +125$
203HT(F)	$20.0\text{k}\Omega \pm 2\%$	$3760\text{K} \pm 1\%$				$-50 \sim +100$
303HT(F)	$30.0\text{k}\Omega \pm 2\%$	$3760\text{K} \pm 1\%$				$-50 \sim +125$
503HT(F)	$50.0\text{k}\Omega \pm 2\%$	$4055\text{K} \pm 1\%$				$-50 \sim +125$
104HT(F)	$100.0\text{k}\Omega \pm 2\%$	$4390\text{K} \pm 1\%$				

\*1 Rated zero-power resistance value at  $25^\circ\text{C}$ .  $\pm 1\%$  and  $3\%$  are also available.

\*2 B value : determined by rated zero-power resistance at  $25^\circ\text{C}$  and  $85^\circ\text{C}$ .

\*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

### Resistance-Temperature

Temperature ( $^\circ\text{C}$ )	Type						Temperature ( $^\circ\text{C}$ )	Type					
	302HT	502HT	103HT	203HT	303HT	503HT	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
-40	93.35	155.6	204.7	540.5	810.8	1602	4572	60	0.7744	1.291	3.011	5.380	8.070
-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
-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
-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
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
10	5.876	9.793	18.07	38.21	57.32	99.13	212.5	110	0.1680	0.2800	0.4918	1.190	1.785
20	3.728	6.214	12.11	24.66	36.99	62.38	127.7	120	0.1295	0.2158	0.4918	0.9159	1.374
30	2.431	4.051	8.301	16.31	24.47	40.24	78.88	125	0.1142	0.1903	0.4918	0.8067	1.210
40	1.623	2.705	5.811	11.04	16.56	26.58	50.03						

Unit (k $\Omega$ )

# Mouser Electronics

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