

HT Thermistor Series (high accuracy, surface mount type)

HT THERMISTOR

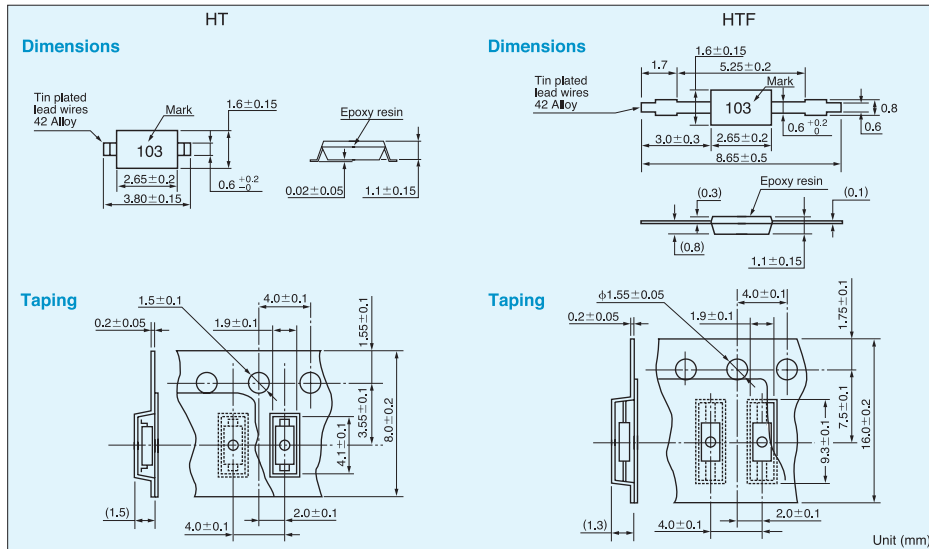
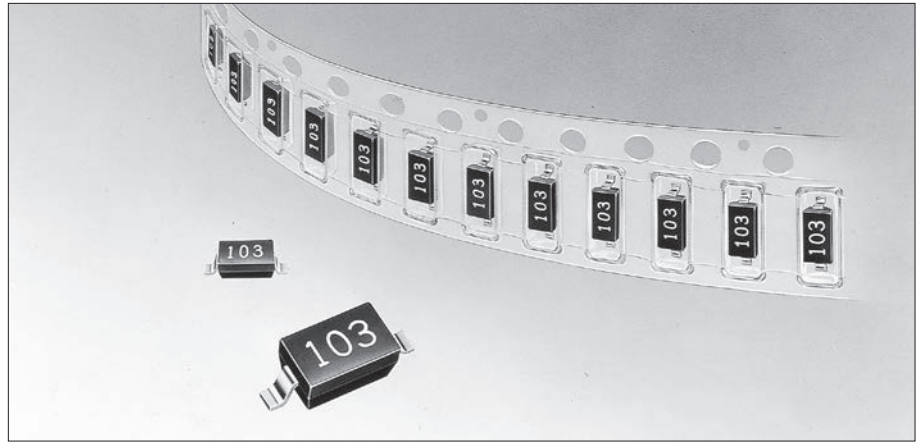
With the highly accurate HT thermistor series re-flow soldering has become possible. The HT thermistor series also features greatly improved reliability compared to existing chip thermistors.

Applications

Office automation, communication devices, IT devices, mobile devices, battery packs, LCDs, hybrid ICs, AV devices, quartz crystal oscillators, electric vehicles

Part number

103 HT-TP	
Only for HTF: TP = Taping No denotation = Loose products	
HT thermistor	
Rated zero-power resistance at 25°C 103:10×10 ³ Ω	



Specifications

Minimum quantity: 3000pcs/reel

Part No.	R ₂₅ ^{*1}	B value ^{*2}	Dissipation factor (mW/°C) Approx.	Thermal time constant (s) ^{*3} Approx.	Rated maximum power dissipation (at 25°C) (mW)	Category temp. range (°C)
302HT(F)	3.0kΩ±2%	3860K±1%	1.0	8.0	5.0	-50~+125
502HT(F)	5.0kΩ±2%	3860K±1%				-50~+100
103HT(F)	10.0kΩ±2%	3435K±1%				-50~+125
203HT(F)	20.0kΩ±2%	3760K±1%				
303HT(F)	30.0kΩ±2%	3760K±1%				
503HT(F)	50.0kΩ±2%	4055K±1%				
104HT(F)	100.0kΩ±2%	4390K±1%				

*1 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 necessary to reach 63.2% of temperature difference. Measured in still 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	40	1.623	2.705	5.811	11.04	16.56	26.58	50.03
-40	93.35	155.6	204.7	540.5	810.8	1602	4572	50	1.109	1.849	4.147	7.632	11.45	17.93	32.51
-30	49.85	83.09	118.5	296.7	445.1	855.0	2282	60	0.7744	1.291	3.011	5.380	8.070	12.33	21.61
-20	27.75	46.25	71.02	169.2	253.8	474.4	1191	70	0.5513	0.9189	2.224	3.861	5.792	8.588	14.66
-10	16.02	26.70	43.67	99.85	149.8	272.7	647.2	80	0.4000	0.6667	1.668	2.815	4.223	6.064	10.13
0	9.541	15.90	27.70	60.87	91.31	161.9	365.0	90	0.2951	0.4918	1.267	2.083	3.125	4.338	7.135
10	5.876	9.793	18.07	38.21	57.32	99.13	212.5	100	0.2210	0.3683	0.9753	1.564	2.346	3.142	5.111
20	3.728	6.214	12.11	24.66	36.99	62.38	127.7	110	0.1680	0.2800		1.190	1.785	2.302	3.720
25	3.000	5.000	10.00	20.00	30.00	50.00	100.0	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

Unit (kΩ)