

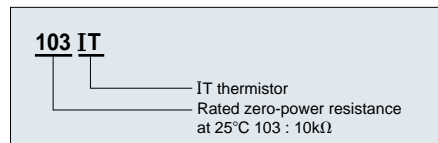
ACCURATE AXIAL TYPE THERMISTOR

IT THERMISTOR

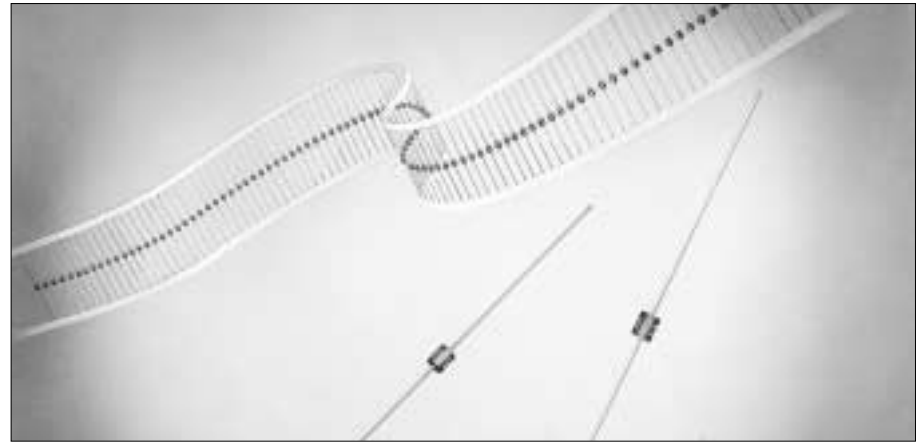
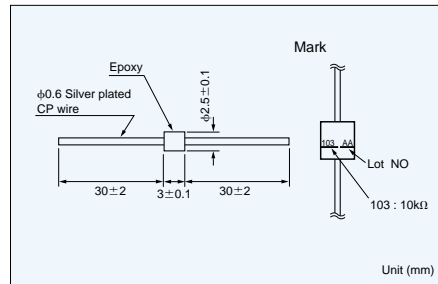
Our newly developed IT thermistors are axial leaded diode type packaged in high-density resin mold and featured strength against various operating environments.

We offer IT thermistor with $\pm 2\%$ tolerance for a resistance value of 25°C and $\pm 1\%$ for B value. IT thermistors are the most appropriate device for accurate temperature control below 100°C.

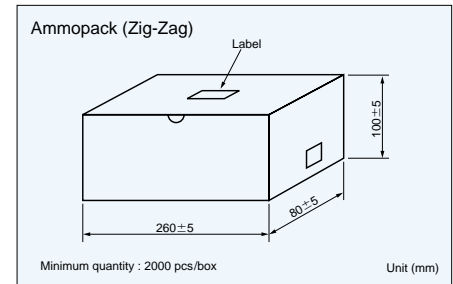
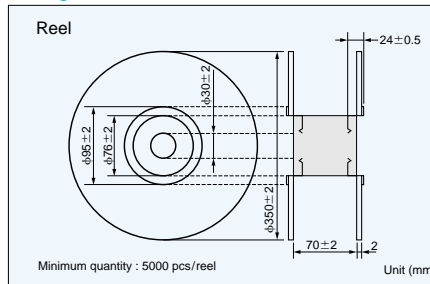
Part number



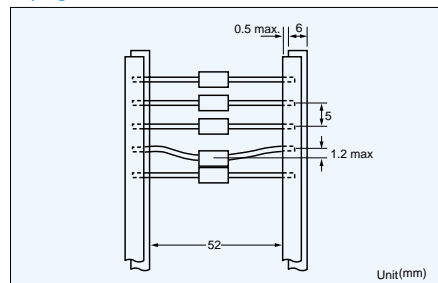
Dimensions



Package



Taping



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)
302IT	3.0kΩ±2%	3860K±1%	3.6	13.5	18.0	-50~125
502IT	5.0kΩ±2%	3860K±1%	3.6	13.5	18.0	-50~125
103IT	10.0kΩ±2%	3435K±1%	3.6	13.5	18.0	-50~100
203IT	20.0kΩ±2%	3760K±1%	3.6	13.5	18.0	-50~125
303IT	30.0kΩ±2%	3760K±1%	3.6	13.5	18.0	-50~125
503IT	50.0kΩ±2%	4055K±1%	3.6	13.5	18.0	-50~125
104IT	100.0kΩ±2%	4390K±1%	3.6	13.5	18.0	-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							
	302IT	502IT	103IT	203IT	303IT	503IT	104IT	302IT		502IT	103IT	203IT	303IT	503IT	104IT		
-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 (kΩ)