

HIGH PRECISION THERMISTOR

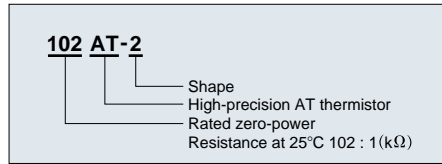
AT THERMISTOR

The AT thermistor is a high-precision thermal sensing device featuring extremely small B-value tolerance and resistance.

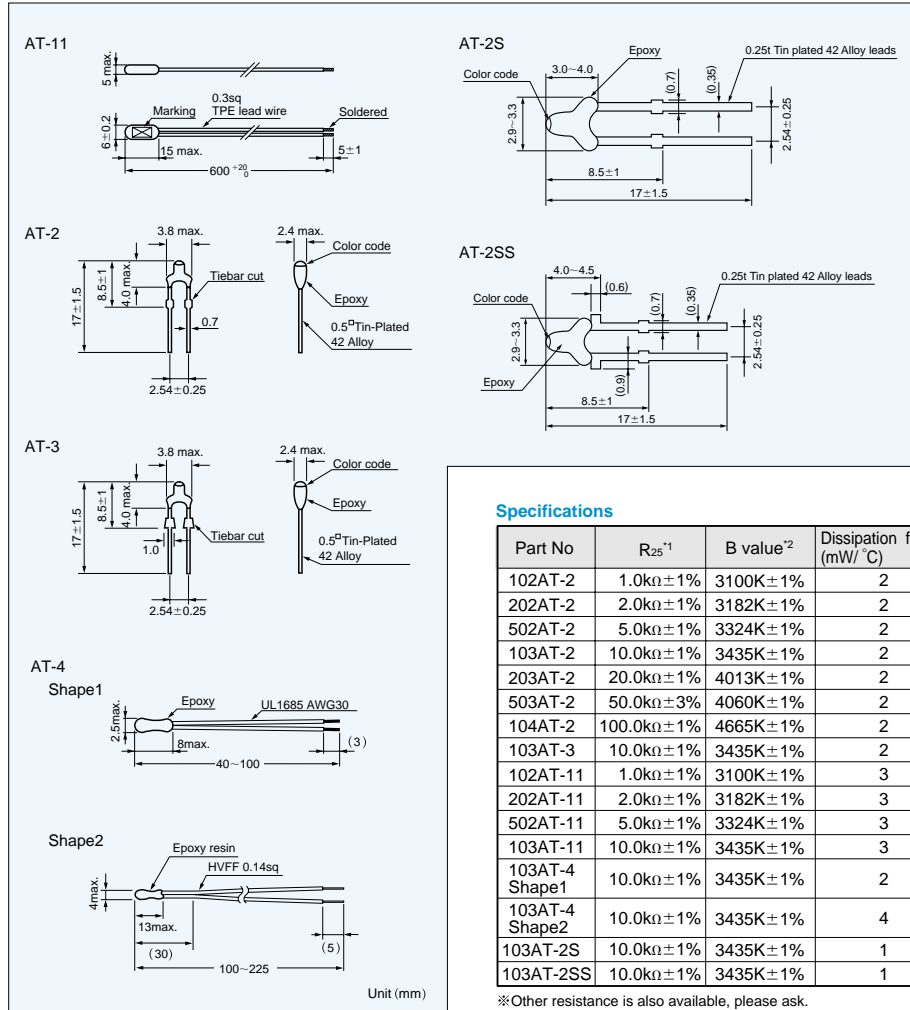
When used as a temperature gauge, the AT thermistor requires no adjustment between the control circuit and the sensor.

This insures temperature precision of $\pm 0.3^{\circ}\text{C}$. Temperature indicators and control instruments are now available for use with the thermistor.

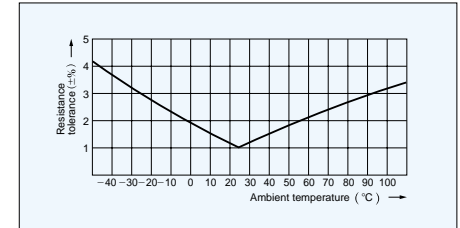
Part number



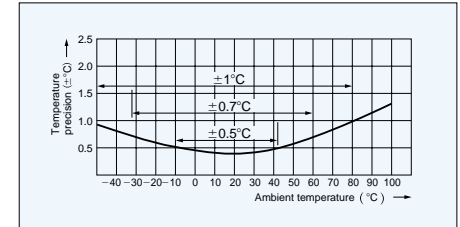
Dimensions



Resistance tolerance



Interchange precision



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)	Color code
102AT-2	1.0k Ω ±1%	3100K±1%	2	15	10	-50~90	Black
202AT-2	2.0k Ω ±1%	3182K±1%	2	15	10	-50~90	Red
502AT-2	5.0k Ω ±1%	3324K±1%	2	15	10	-50~110	Yellow
103AT-2	10.0k Ω ±1%	3435K±1%	2	15	10	-50~110	White
203AT-2	20.0k Ω ±1%	4013K±1%	2	15	10	-50~110	None
503AT-2	50.0k Ω ±3%	4060K±1%	2	15	10	-50~110	None
104AT-2	100.0k Ω ±1%	4665K±1%	2	15	10	-50~110	None
103AT-3	10.0k Ω ±1%	3435K±1%	2	15	10	-50~110	White
102AT-11	1.0k Ω ±1%	3100K±1%	3	75	15	-50~90	None
202AT-11	2.0k Ω ±1%	3182K±1%	3	75	15	-50~90	None
502AT-11	5.0k Ω ±1%	3324K±1%	3	75	15	-50~105	None
103AT-11	10.0k Ω ±1%	3435K±1%	3	75	15	-50~105	None
103AT-4 Shape1	10.0k Ω ±1%	3435K±1%	2	10	10	-30~90	None
103AT-4 Shape2	10.0k Ω ±1%	3435K±1%	4	35	20	-30~90	None
103AT-2S	10.0k Ω ±1%	3435K±1%	1	15	5	-50~110	white
103AT-2SS	10.0k Ω ±1%	3435K±1%	1	15	5	-50~110	white

*Other resistance is also available, please ask.

#1 R₂₅: Rated zero-power resistance value at 25°C.

#2 B value: determined by rated zero-power resistance at 25°C and 85°C.

#3 T time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

Mouser Electronics

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