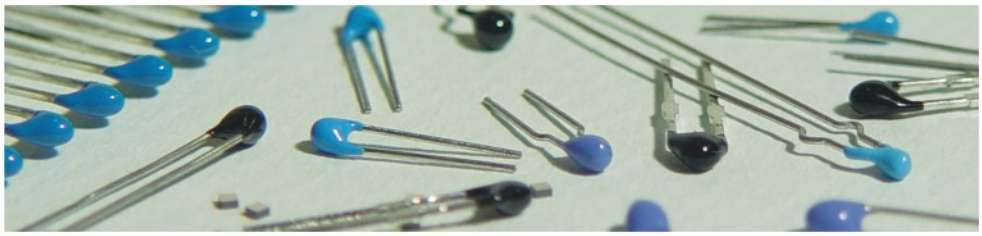
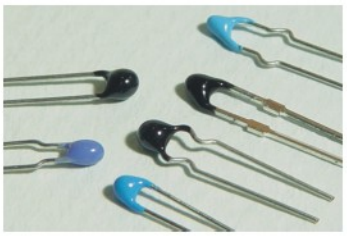
NTC CHIP THERMISTOR

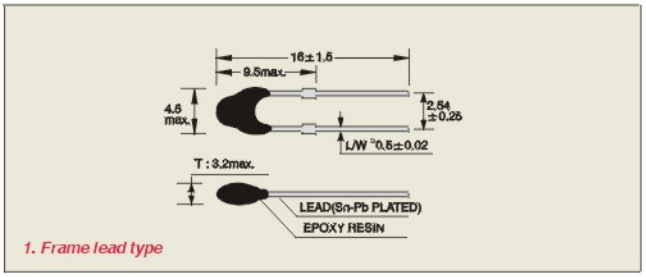




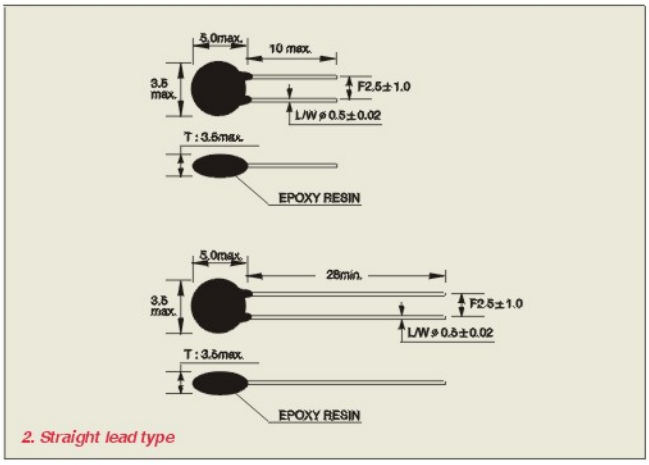
Chip thermistor is a high-precision thermal sensing device featuring an extremely small B-value tolerance and resistance.
When used as a temperature gauge, thermistor requires no adjustment between the control circuit and the sensor. This insures a temperature precision ±0.3℃. Temperature indicator and control instruments are now available for use with the thermistor.

NTC - 103 F 343 F □
① ② ③ ④ ⑤ ⑥

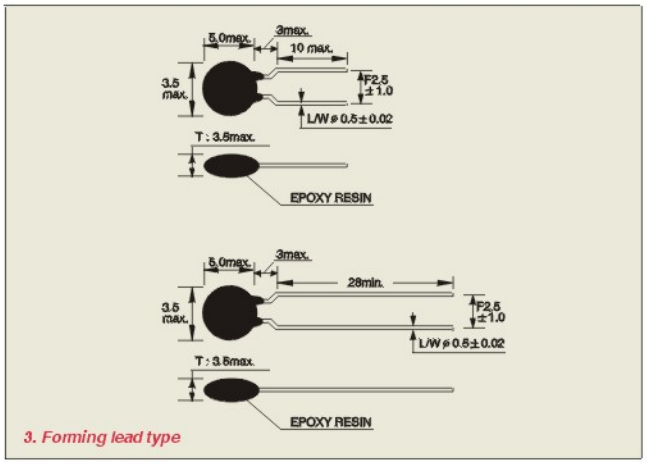
① SYMBOL
② RESISTANCE AT 25℃ [202 : 2,000Ω(2kΩ),
103 : 10,000Ω(10kΩ), 104 : 100,000Ω(100kΩ)]
③ RESISTANCE TOLERANCE
(F:±1%, G:±2%, H:±3%, J:±5%, K:±10%)
④ B VALUE (25℃ /85℃)
⑤ B VALUE TOLERANCE (F:±1%, G:±2%, H:±3%)
⑥ TYPE (□ : Straight C : Frame)



1. Frame lead type



2. Straight lead type



3. Forming lead type

SPECIFICATION

PART No.	Resistance (25℃)*1	B Value (25℃/85℃)*2	Dissipation Constant	Thermal time*3 Constant	Rated power at 25℃	Operating Temp. range
502F332F	5 kΩ±1%	3324±1%	3.5 mW/℃	15 sec max.	45 mW	-50~120℃
502F347F	5 kΩ±1%	3470±1% (25℃/50℃)				
502F397F	5 kΩ±1%	3970±1%				
103F343F	10 kΩ±1%	3435±1%				
103F345F	10 kΩ±1%	3450±1% (25℃/50℃)				
103F397F	10 kΩ±1%	3970±1%				
303F410F	30 kΩ±1%	4100±1%				
403F400F	40 kΩ±1%	4000±1%				
503F400F	50 kΩ±1%	4000±1%				
503F408F	50 kΩ±1%	4080±1%				
104F400F	100 kΩ±1%	4000±1%				

*1. R_{25} : Rated zero-power resistance value at 25℃
*2. B Value : determined by rated zero-power resistance at 25℃ and 85℃
*3. Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.