

NTC Thermistor

PRODUCT DATA

■ Temperature Compensation/Sensing TTC03 Series

Features

- 1. Body size $\,\phi\,3\mathrm{mm}$
- 2. Radial lead resin coated
- 3. -40 ~ +125°C operating temperature range
- 4. Wide resistance range
- 5. Cost effective

• Recommended applications

- Home appliances (air conditioner, refrigerator, electric fan, electric cooker, washing machine, microwave oven, drinking machine, CTV, radio.)
- 2. Automotive electronic
- 3. Computer
- 4. Digital meter

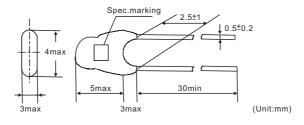
Approvals



* UL 1434 Recognized (File#E138827)



Dimensions





• Characteristics

Part no.	Zero power resistance at 25°C (KΩ)	Tolerance of resistance (±%)	B value (K)		Tolerance of B value (±%)	Max. power rating at 25℃ (mW)	Thermal dissipation constant (mW/°C)	Thermal time constant (Sec.)	Operating temperature range (°C)
TTC3A901□39D*	0.9			3935					
TTC3A102_39D*	1	1 \ 2 \ 3 \ 5 \ 10 25/8	25/85	3935	1 \ 2 \ 3	300	≧ 5	≦11	-40 ~ +125
TTC3A202□39H*	2			3975					
TTC3A222_39H*	2.2			3975					

• Characteristics

Part no.	Zero power resistance at 25°C (KΩ)	Tolerance of resistance (±%)	B value (K)		Tolerance of B value (±%)	Max. power rating at 25°C (mW)	Thermal dissipation constant (mW/°C)	Thermal time constant (Sec.)	Operating temperature range (°C)					
TTC3A272□39H*	2.7			3975										
TTC3A302□39H*	3			3975										
TTC3A332 <u></u> 39H*	3.3			3975										
TTC3A472□39H*	4.7			3975										
TTC3A502□39H*	5			3975										
TTC3A682 <u></u> 39H*	6.8		3975 3435 3740 3975 3740 3740 3740 3740 4090 4090 4190 4190 4370 4370 4570	3975										
TTC3A103_34D*	10			3435										
TTC3A103_374*	10			3740										
TTC3A103 39H*	<mark>(10</mark>)			3975										
TTC3A123_374*	12			3	3740									
TTC3A153_374*	15	1 . 2 . 2 . 5 . 10		3740	1 \ 2 \ 3	300	≥5	≦11	-40 ~ +125					
TTC3A203_374*	20	1 \ 2 \ 3 \ 5 \ 10		3740	1 \ 2 \ 3									
TTC3A223_374*	22													
TTC3A333_409*	33			4090										
TTC3A473_409*	47			4090										
TTC3A683_419*	68			4190										
TTC3A104_419*	100			4190										
TTC3A154_437*	150			4370										
TTC3A224_437*	220			4370										
TTC3A334_457*	330									4570				
TTC3A474_457*	470			4570										

Note 1: = Tolerance of resistance
Note 2: * = Tolerance of B value



• Reliability test

Item		Specifications			
	Gradually applying the force s for 10 [±] 1 sec.	pecified below to each ter	minal and keeping the unit	fixed	
	Term				
Tensile		(mm)	(Kg)		
Strength of		()			
Terminations	0				
	0	5 <d≦0.8< td=""><td>1.0</td><td></td></d≦0.8<>	1.0		
	Hanging the force specified belo in one direction, then 90° in the o			l by 90°	
Ronding	Term				
Bending Strength of Terminations		No visible damage			
reminiations	0				
	0				
Solderability		At least 95% of terminal electrode is covered by new solder			
Resistance to Soldering Heat		No visible damage $\mid \triangle R/R \mid \leq 3 \ \%$			
High Temperature Storage		No visible damage $\mid \triangle R/R \mid \leq 5~\%$			
Damp Heat	40±	No visible damage $\mid \triangle R/R \mid \; \leqq 3 \; \%$			
	The thermal shock conditions	shown below shall be repe	ated 5 cycles		
	Step	Temperature (°C)	Period (minutes)		
Thermal Shock	1	-40±5	30±3	No visible damage	
	2	Room temperature	5±3	No visible damage △R/R ≤ 3%	
	3	125±5	30±3 5±3		
	4				
Life Test	25±5	No visible damage △R/R ≦ 5%			