



# TMCR04-Chip NTC Thermistor

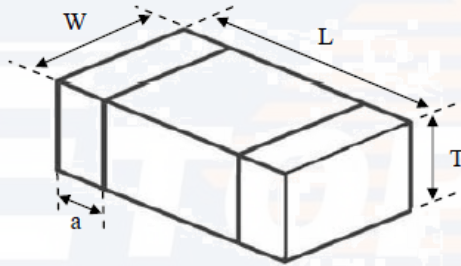
## Feature:

- Small in size
- High sensitivity, In light weight
- Excellent solderability and solder resistance
- Suitable for high speed and high density surface mount
- Faster response, good stability and high reliability

**Appliacation:** Audio-visual products, home appliances, office equipment, communication equipment, etc.

## Part Number:

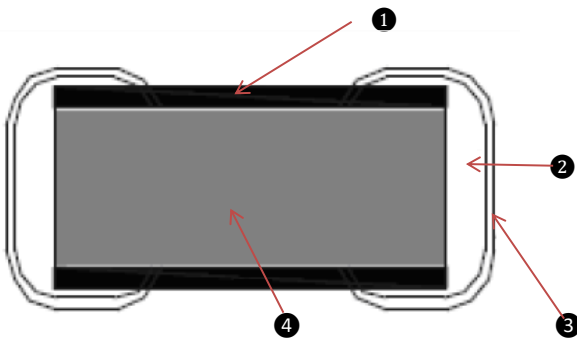
TMCR04	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14
↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<b>Produce Code</b> TMCR04: Chip NTC Thermistor	-	<b>Rated Zero-Power Resistance at 25°C (Ω)</b>		<b>Tolerance</b>		<b>B value constant(K):</b>		<b>Tolerance of B value:</b>		<b>Size:</b>		<b>Packaging</b>			
		222=2.2kΩ		F=±1%		3200		F=±1%		0201		T:tape&reel			
		103=10kΩ		G=±2%		3435		G=±2%		0402		B:bulk			
		474=470kΩ		H=±3%		3450		H=±3%		0603					
				J=± 5%		3600		J=± 5%		0805					
						3900				1206					
						4150									
						4200									



## Dimension(mm):

Type(inch)	L(mm)	W(mm)	T(mm)	a(mm)
0201	0.6±0.05	0.3±0.05	0.4Max	0.10Min
0402	1.0±0.15	0.5±0.10	0.5Max	0.10Min
0603	1.6±0.15	0.8±0.15	0.95Max	0.10Min
0805	2.0±0.20	1.25±0.20	1.25Max	0.15Min
1206	3.2±0.20	1.6±0.20	1.50Max	0.20Min

## Construction:



No.	Components	Material
①	NTC or Ceramic	Mn-Co-Ni
②	Glass layer	Si-Bi
③	Terminal Electrode (Ag layer)	Ag layer
④	Terminal Electrode (Ni/Sn plating)	Ni-Sn plating



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## Electrical Characteristics

(TMCR04-) part item	Resistance B Constant (25/50°C)		Permissible Operating Current ( 25°C) (mA)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)	Rated Electric Power(25°C) (mW)	Operation Ambient Temperature (°C)
	(kΩ)	(K)					
103F3435F0603T	10±1%	3380±1%	0.31	1.0	<5	100	-40~+125°C
103F3450F0603T	10±1%	3450±1%	0.31				
103F3950F0603T	10±1%	3950±1%	0.31				
223F3950F0603T	22±1%	3950±1%	0.21				
333F4050F0603T	33±1%	4050±1%	0.17				
473F4050F0603T	47±1%	4050±1%	0.14				
683F4150F0603T	68±1%	4150±1%	0.12				
104F3950F0603T	100±1%	3950±1%	0.10				
104F4250F0603T	100±1%	4250±1%	0.10				
103H3435F0603T	10±3%	3380±1%	0.31				
103H3450F0603T	10±3%	3450±1%	0.31				
103H3950F0603T	10±3%	3950±1%	0.31				
223H3950F0603T	22±3%	3950±1%	0.21				
333H4050F0603T	33±3%	4050±1%	0.17				
473H4050F0603T	47±3%	4050±1%	0.14				
683H4150F0603T	68±3%	4150±1%	0.12				
104H3950F0603T	100±3%	3950±1%	0.10				
104H4250F0603T	100±3%	4250±1%	0.10				
103J3435F0603T	10±5%	3380±1%	0.31				
103J3450F0603T	10±5%	3450±1%	0.31				
103J3950F0603T	10±5%	3950±1%	0.31				
223J3950F0603T	22±5%	3950±1%	0.21				
333J4050F0603T	33±5%	4050±1%	0.17				
473J4050F0603T	47±5%	4050±1%	0.14				
683J4150F0603T	68±5%	4150±1%	0.12				
104J3950F0603T	100±5%	3950±1%	0.10				
104J4250F0603T	100±5%	4250±1%	0.10				

## Test and Measurement Procedures

### Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as

- a. ambient Temperature: 20±15°C
- b. Relative Humidity: 65±20%
- c. Air Pressure: 86kPa to 106kPa

If any doubt on the results, measurements/tests should be made within the following limits:

- a. Ambient Temperature: 25±2°C
- b. Relative Humidity: 65±5%
- c. Air Pressure: 86kPa to 106kPa

### Inspection Equipment

Visual Examination: 20Xmagnifier

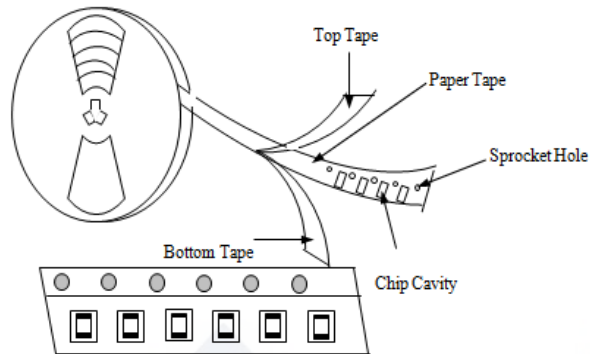
Varistor Voltage test: Thermistor resistance tester



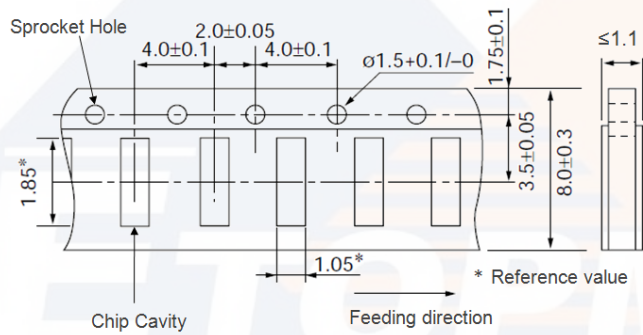
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## Packing dimension

### A. Taping Drawing



### B. Paper Tape Dimensions(mm)



### C. Reel Dimensions(mm)

