

POWER THERMISTOR

CNTC (CHIP TYPE)

INTRODUCTION

A thermistor is a thermally sensitive resistor and the primary function is to exhibit a change in electrical resistance with a change in body temperature. NTC thermistor is one in which the zero-power resistance decreases with an increase in temperature.

FEATURES

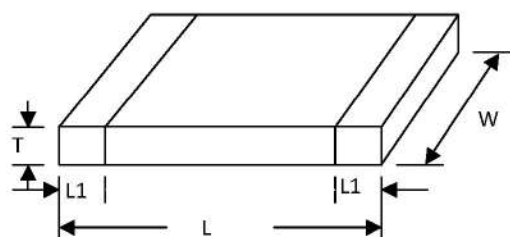
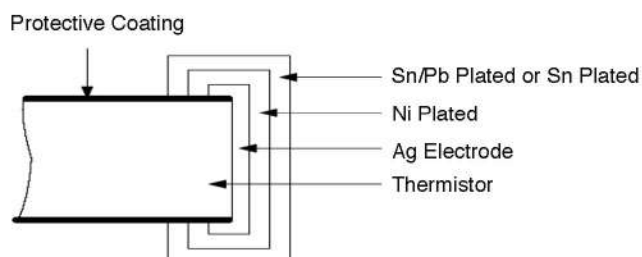
- Multilayer structure allows diverse resistance value in the same B constant.
- Ultra small size, low capacitance, high B value.
- Glass coated perform for long term reliability.
- Non-polarized for mounting.
- Can be used for Flow/Reflow soldering.

DIMENSIONS

Unit : mm

TYPE	L	W	T	L1
CNTC0402	1.00±0.10	0.50±0.10	0.60 max	0.15 ~0.30
CNTC0603	1.60±0.15	0.80±0.15	0.95 max	0.20 ~0.50
CNTC0805	2.00±0.20	1.25±0.20	1.20 max	0.20 ~0.60
CNTC1206	3.20±0.20	1.60±0.20	1.40 max	0.25 ~0.60

CHIP STRUCTURE



ELECTRICAL CHARACTERISTICS

TEST	STANDARD	TEST METHOD	$\Delta R_{25}/R_{25}$
LOAD LIFE	MIL-STD-202F Method 108A	Test temp. : 70°C ; Test duration : 1000 hours Load power : 1206-6.5mW, 0805-5.0mW, 0603-4.5mW, 0402-3.5mW,	MAX. ±3%
RESISTANCE TO HUMIDITY	MIL-STD-202F Method 103B	Test temp. : 40°C ; Test humidity : 90% Test duration : 1000 hours Load power : 1206-6.5mW, 0805-5.0mW, 0603-4.5mW, 0402-3.5mW,	MAX. ±3%
THERMAL SHOCK	MIL-STD-202F Method 107G	Test cycle : 10 times Test temperature : -40°C & 125°C	MAX. ±3%
STORABILITY IN DRY HEAT	IEC 68-2-2	Test temp. : 125°C ; Test duration : 1000 hours	MAX. ±3%
SOLDERABILITY	MIL-STD-202F Method 208H	Soldering temperature : 235°C Duration of immersion : 2 seconds	95% min. coverage
RESISTANCE TO SOLDERING HEAT	MIL-R-55342D PARA 4.7.7	Soldering temperature : 260°C Duration of immersion : 10 seconds	MAX. ±3%