

NIC PRODUCT PROFILE

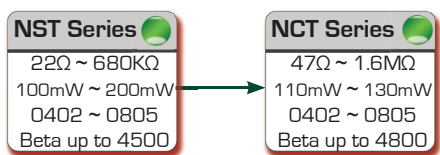
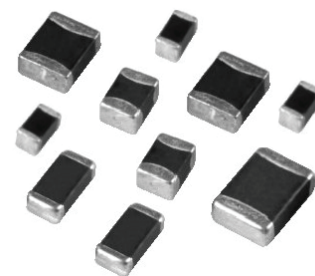
NCT Series, NST Series

Negative Temperature (NTC) Thermistors

Description:

Negative Temperature Coefficient (NTC) Chip thermistors decrease in resistance with increases in operating temperature and increase resistance with decreasing temperature.

Both NCT and NST series offers these NTC characteristics is SMT Chip types operating from +25°C to +100°C. NST offers a single Beta range vs. Resistance while the NCT series offers the ability to select your beta value.



Links to Know...

Series Pages:

www.niccomp.com/series/NCT

www.niccomp.com/series/NST

View all Circuit Protection Products

www.niccomp.com/safety

Search with QuickBUILDER

www.NICcomp.com/QB-Thermistors

Characteristics:

Temperature Range : -40°C ~ +125°C

Operating Ranges : +25°C ~ +50°C (D)

+25°C ~ +85°C (A)

+25°C ~ +100°C (E)

Resistance : 22Ω ~ 1.6 MΩ

Tolerance : ±1%, ±2%, ±3%, ±5%, ±10%

Beta Values: 2610K ~ 4800K

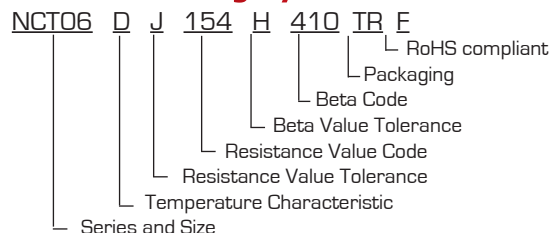
Beta Tolerances: ±1%, ±2%, ±3%, ±5%

Sizes: 0402 ~ 0805

NTC Thermistor Applications

- ◇ Current Sensing
- ◇ Battery packs
- ◇ Car Audio Equipment
- ◇ Chargers / Adapters
- ◇ Thermal printers
- ◇ Temperature Gauges
- ◇ Fan Controller Circuits
- ◇ Sensors for Fire Protection

Part Numbering System



[NCT SERIES RESISTANCE VALUES (@25°C) AND BETA RANGE]

Beta Value	NCT04 (0402)	NCT06 (0603)	NCT08 (0805)
4610 ~ 4800K	100K ~ 2M	68K ~ 2M	47K ~ 2M
4410 ~ 4600K	10K ~ 2M	10K ~ 2M	10K ~ 2M
4210 ~ 4400K	10K ~ 2M	10K ~ 2M	6.8K ~ 2M
4010 ~ 4200K	10K ~ 220K	1K ~ 220K	1K ~ 220K
3810 ~ 4000K	2K ~ 150K	1K ~ 150K	1K ~ 150K
3610 ~ 3800K	2K ~ 150K	1K ~ 150K	1K ~ 150K
3410 ~ 3600K	2K ~ 150K	1K ~ 150K	1K ~ 150K
3210 ~ 3400K	2K ~ 150K	1K ~ 150K	680 ~ 150K
3010 ~ 3200K	680 ~ 68K	470 ~ 150K	220 ~ 150K
2810 ~ 3000K	500 ~ 47K	150 ~ 100K	100 ~ 100K
2610 ~ 2800K	100 ~ 10K	100 ~ 1K	100 ~ 1K

