

NTCG Series Thermistors

SMD Negative Temperature Coefficient Thermistors



TDK's NTCG Series Thermistors are manufactured from sintered metal oxides. Each thermistor consists of a combination of two to four of the following materials: Manganese, Nickel, Cobalt, and Copper. NTC thermistors are semiconductor resistors that exhibit decreasing resistance characteristics with increasing temperature. TDK thermistors have low thermal time constants which result in extremely high rates of resistance change to accurately track the temperature.

Features

- Lead (Pb) free product
- Wide range of resistances and B constants available
- Good stability of resistance value after soldering
- Automotive Grade parts are AEC-Q200 compliant

Applications

- Mobile Communication Devices
- DVC, DSC
- Optical Transmission System
- Computer Devices
- Car Audio Unit
- Printer

Commercial

Automotive

Thermistor



[Datasheet](#)

NTCG Series Information

Case Size: 0603, 1005, 1608, 2012

Resistance [at 25°C]: 30Ω to 1MΩ (varies with case size)

Resistance Tolerance: ±1%, ±2%, ±3%, ±5%

B Value Tolerance: ±1%, ±3%

Commercial Grade Operating/Storage Temp. Range: -40°C to +125°C

Automotive Grade Operating/Storage Temp. Range: -40°C to +150°C

Part Number Characteristics

NTC		G		○○		3E		H		101		□		T		□		
Series name		Structural classification		Shapes and dimensions code		B constant*		B constant tolerance (%)		Nominal resistance (Ω)		Nominal resistance tolerance** (%)		Packaging style		TDK Internal code: Taping specifications		
NTC thermistor		G	Multilayer internal electroded chip type NTC thermistor (Pb free type)	06	0603	3E	3201 to 3250		F	±1	300	30	F	±1	T	Taping	1	Standard
	10			1005	3N	3601 to 3650		H	±3	101	100	G	±2	B	Bulk	B	NTCG06 type standard	
	16			1608	4L	4501 to 4550				102	1000 (1kΩ)	H	±3			DS	Automotive (High reliability)	
	20			2012	4Q	4701 to 4750				103	10000 (10kΩ)	J	±5			1S	150°C correspondence (High reliability)	