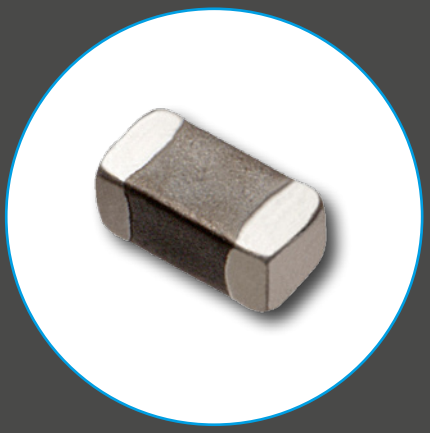
NTC Thermistor
ERT Series

Panasonic

1 What is a NTC Thermistor?

NTC Thermistor is a ceramic that changes its resistance value as the ambient temperature changes.

NTC Thermistors can be used for temperature detection and temperature compensation of the electronic devices.



2 ERT Series Overview

Automotive Series Line-Up (AEC-Q200)

0402, 0603	2kΩ to 470kΩ

Industry (STD Tolerance 3% / 5%)

0201, 0402, 0603	2kΩ to 470kΩ

Industry (Narrow Tolerance 1% / 2%)

0201, 0402, 0603	10kΩ to 220kΩ

3 Key Points

- Surface Mount Device (01005, 0201, 0402, 0603)
- Highly reliable multilayer / monolithic structure / unique electrode design (temperature operating range - 40 to 150°C)
- High temperature accuracy by adapting our original electrode structure
- High accuracy from 1% tolerance available
- AEC-Q200 qualified

4 Applications

- Smart Meter
- Lighting (LED Driver, Light Control Unit)
- Battery Management Systems
- Power & Steering (Engine Control, Oil/Fuel Pump, Power Steering)
- Body & Security (Climate Control, Sunroof, ABS / ESP / TCS / Breaks)
- Infotainment (Display/Navi, Radar, Intercom System)

For more information please visit: industry.panasonic.eu

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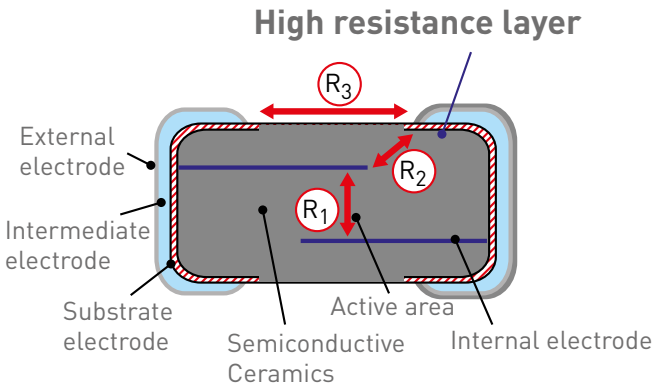
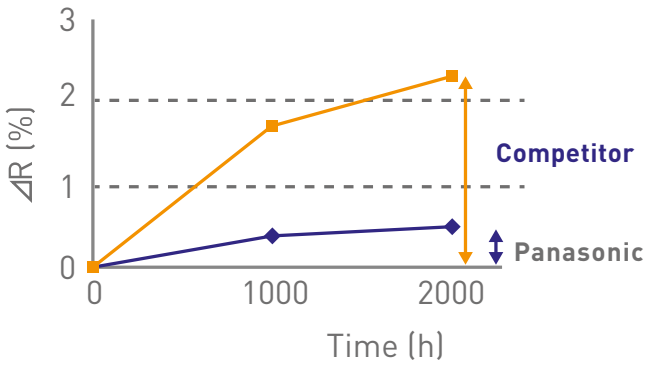
5 Key Data

- Panasonic´s high-resistance layer enables:
- No resistance change due to external factors such as reflow soldering, ambient environment and harsh atmosphere.

➔ High-precision temperature measuring throughout the lifetime





6 Panasonic Portfolio

Series	High precision type (narrow tolerance)	Standard type	Automotive type
PN	ERTJ******F* / ERTJ******G*	ERTJ******H* / ERTJ******J*	ERTJ*******M
Size	01005 ~ 0603	01005 ~ 0603	0402, 0603
Resistance Value	R25: 10 ~ 220 kΩ ± 1%, 2%	R25: 0.022 ~ 470 kΩ ± 3%, 5%	R25: 1 ~ 470 kΩ ± 1%, 2%, 3%, 5%
B value	B25/50: 3380 ~ 4700 K ± 1%	B25/50: 2750 ~ 4700 K ± 2%, 3%	B25/50: 3380 ~ 4700 K ± 1%