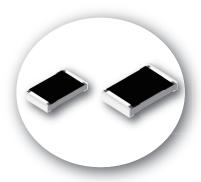


2024.10

High Temperature Chip Resistors

Contributes to use in high-temperature environments with high heat resistance and high reliability design



Product summary

- Compatible with a maximum operating temperature of 175 $^{\circ}$ C and a rated operating temperature of 105 $^{\circ}$ C
- Rapid temperature change: -55 °C ⇔ +175 °C 1000 cycles guaranteed

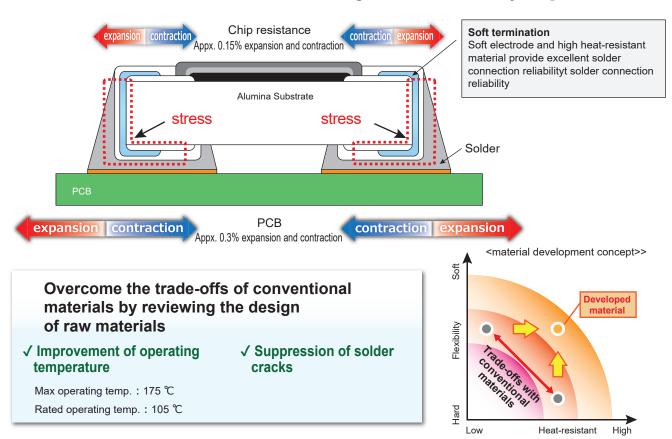
Features

- Improved heat resistance through the development of our original end-face electrode and protective film materials
- High heat-resistant soft electrode structure guarantees temperature cycle test -55 °C ⇔ +175 °C 1000cycle
- Ensures high solder connection reliability even in extreme temperature environments

Structure

[Resin electrode (Soft termination) material is used

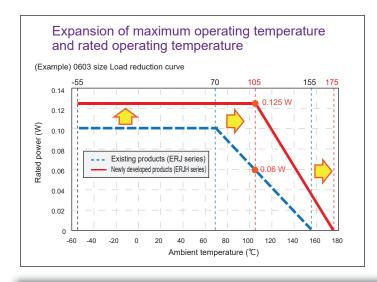
→ Relieves strain solder stress during cold and thermal cycles]

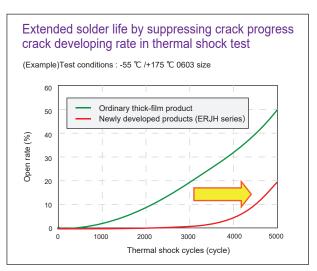


Isuue: Panasonic Industry Co., Ltd. Device Solutions Business Division 1006 Kadoma, Kadoma City, Osaka, 571-8506 Japan

Contribution points

[Achieves high heat resistance by new materials developing]





Guarantees that the resistor endures 1000 cycles of thermal shock testing (-55℃/+175℃)

- 1. Expand of max operating temperature 155 $^{\circ}$ C \Rightarrow 175 $^{\circ}$ C
- 2. Expand of rated operating temperature 70 $^{\circ}$ C \Rightarrow 105 $^{\circ}$ C
- 3. Improvement of solder crack resistance

Product line-up

	Size (inch) (mm)	Part No.	Power rating (W)	Resistance tolerance (%)	Resistance range (Ω)	Category temp. range (℃)
General grade	0402 1005 (1.0x0.5)	ERJH2G	_	_	Jamper (50 mΩ or less)	-55 to +175
			0.10	±5	1 to 300 k	
	0603 1608 (1.6x0.8)	ERJH3G	Ι	Ι	Jamper (50 mΩ or less)	
			0.125	±5	1 to 300 k	
	0805 2012 (2.0x1.25)	ERJH6G	ı	ı	Jamper (50 mΩ or less)	
Precision grade	0402 1005 (1.0x0.5)	ERJH2C	0.10	±1	1 to 9.76	
		ERJH2R		±0.5, ±1	10 to 300 k	
	0603 1608 (1.6x0.8)	ERJH3E	0.125			
Low resistance	0603 1608 (1.6x0.8)	ERJH3Q	0.25	±0.5, ±1	1 to 9.76	
				±5	1 to 9.1	
Surge resistant	0805 2012 (2.0x1.25)	ERJHP6	0.50	±0.5	10 to 300 k	
				±1, ±5	1 to 300 k	