

High Power Type Chip Resistor

Hokuriku Electric Industry Co.,Ltd



【Model Number】
PCR**

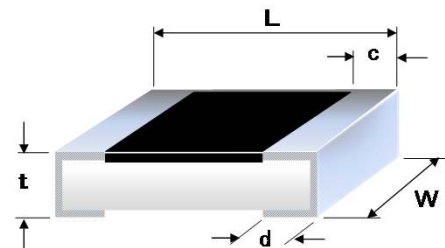
【Features】

■ HDK original elements, structure utilized [excellent surge/pulse durability](#), chip resistor. On ESD ±15KV applied test (new JASO condition), durability within ±5% of resistance change was achieved on 2012 size.



■ Industry highest [rating guarantee](#) is possible. Since 0.33W (3225 size equivalent) is guaranteed with 1608 size, reduction of parts count (man-hour control) and VA by size-down (reduction of parts cost and mounting area) is possible.

■ Compared to normal chip resistor (same size),



(Unit: mm)

【Dimensions】

Model No.	L	W	t	c	d
PCR16	1.60±0.15	0.80 +0.20/-0.10	0.50 +0.15/-0.05	0.25±0.20	0.25±0.20

【Designation】

PCR16 - 103 J V

① ② ③ ④

① Model No.

Model No.	Size
PCR16	1608

② Resistance Value

Marking	Resistance
103	10KΩ
103 = 10 × 10 ³ = 10,000Ω = 10KΩ	

③ Resistance Tolerance

Symbol	Tolerance
J	±5.0%

④ Packing Form

Symbol	Form
V	Paper tape
B	Bulk

【Specification】

Model No.	Rated power (W)	Tolerance	Range (Ω)	TCR (ppm/°C)	Max.Working Voltage	Max.Overload Voltage
PCR16	0.33	J (±5.0%)	10~1M (E-24)	±200	150V	200V

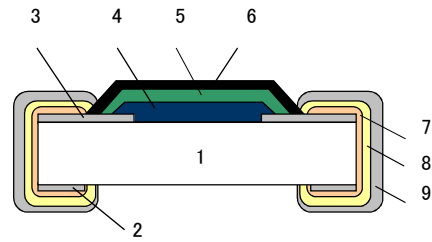
* Operating temperature range: -55~+155 °C

* Design* specification are subject to change without prior notice. Please check before purchase and use.

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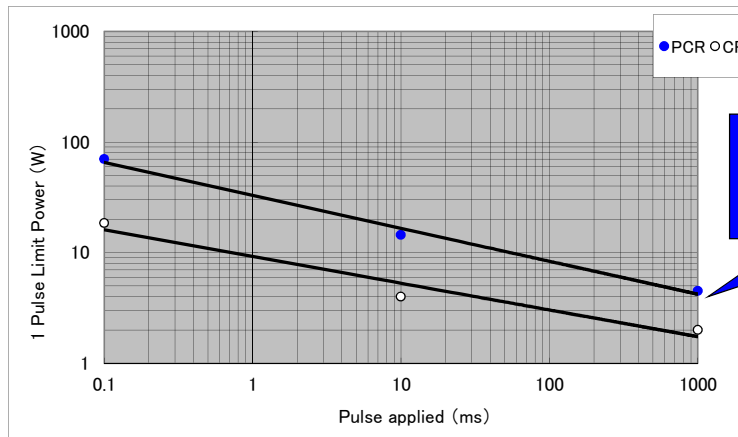
【Structure】

No.	Element Name
1	Ceramic substrate
2	Bottom electrode
3	Top electrode
4	Resistive element
5	Protective coat I
6	Protective coat II
7	Side electrode
8	Ni plating
9	Sn plating



【One Pulse Limit Curve】

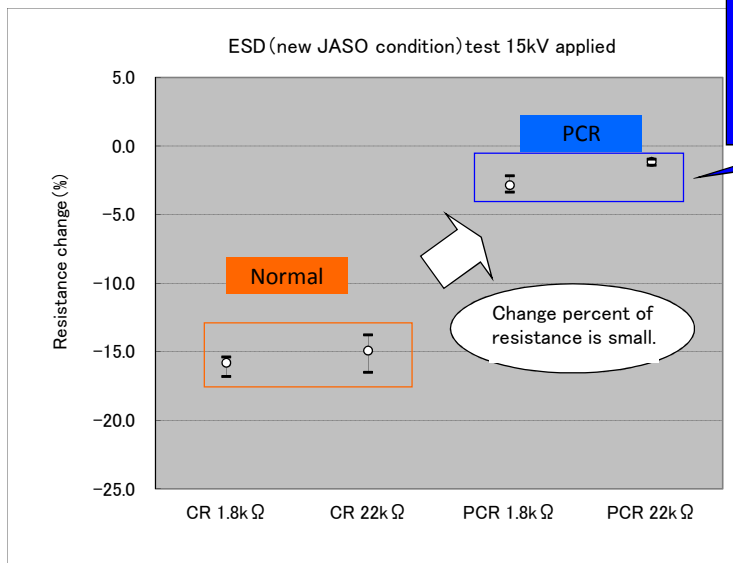
Compared with normal type, there is about 3 times higher durability.



PCR type has excellent pulse durability, about 3 times higher compared to normal

【ESD durability characteristics】

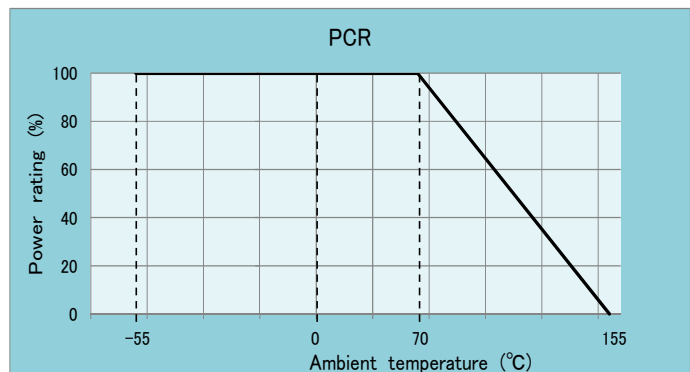
Resistance change within $\pm 5.0\%$ was realized on ESD test (new JASO condition).



PCR type has excellent ESD durability. On ESD test (new JASO condition), durability within $\pm 5\%$ of resistance

【Power derating curve】

■ When used at ambient temperature of 70°C or above, power rating must be derated in accordance with the derating



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