

Surge Current Type High Power Chip Resistor

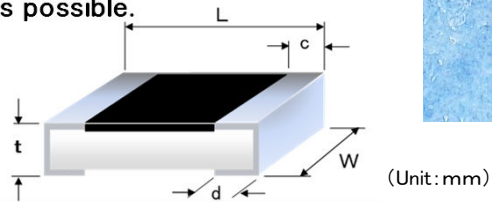
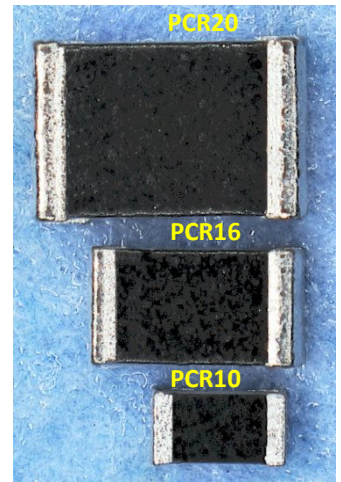
Hokuriku Electric Industry Co.,Ltd



【Model No.】 PCR**

【Features】

- HDK original elements, structure utilized **excellent surge/pulse durability**, chipresistor.
- Industry highest **rating gurantee** is possible.
 Since **0.20W is guaranteed with 1005 size**,
0.30W is guaranteed with 1608 size
and 0.50W is guaranteed with 2012 size
 reduction of parts count (man-hour control) and VA by size-down
 (reduction of parts cost and mounting areqa) is possible.
- **Reflow, Flow solderings** are possible.



【Dimensions】

Model No.	L	W	t	c	d
New PCR10	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.20
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
PCR20	2.00+0.20/-0.10	1.25+0.20/-0.10	0.50+0.15/-0.05	0.40±0.20	0.40±0.20

【Model No. Configuration】

PCR16 - 103 J V

① ② ③ ④

① Model No.

Model	Size
PCR10	1005
PCR16	1608
PCR20	2012

② Resistance value

Indication	Resistance value
103	10k Ω
103=10 × 10 ³	
	=10,000 Ω =10k Ω

③ Tolerance

Type	Tolerance
J	±5.0%
F	±1.0%
D	±0.5%

④ Packing style

Type	Packing style
V	Paper taping
B	Bulk

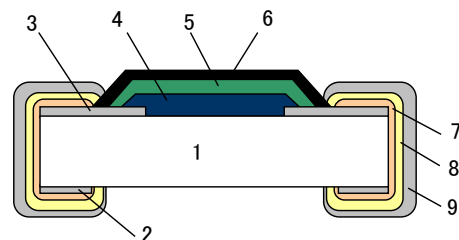
【Specification】

Model No.	Rated power(W)	Toelrance	Range(Ω)	TCR(ppm/°C)	Max. Working voltage	Max. Overload voltage
New PCR10	0.20	J(±5.0%)	10~1M	±200	50V	100V
		F(±1.0%)		±100		
		D(±0.5%)				
PCR16	0.30	J(±5.0%)	10~1M	±200	150V	200V
		F(±1.0%)		±100		
		D(±0.5%)				
PCR20	0.50	J(±5.0%)	10~1M	±200	150V	200V
		F(±1.0%)		±100		
		D(±0.5%)				

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

【Structure】

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



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

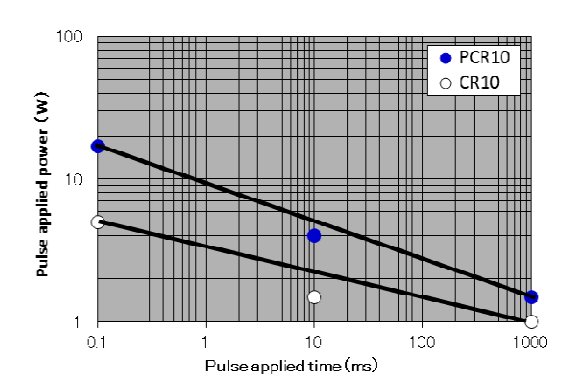
HOKURIKU



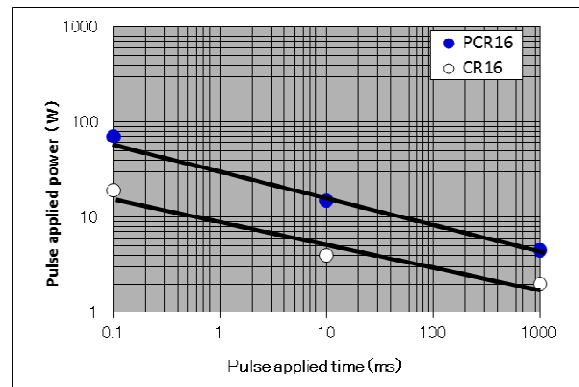
【One pulse Limit Curve】

PCR10 [Actual value (for reference)]

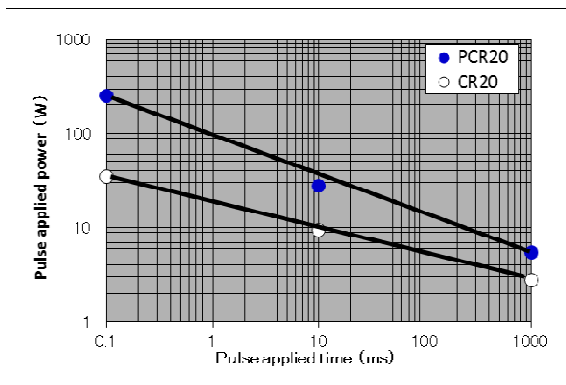
New



PCR16 [Actual value (for reference)]



PCR20 [Actual value (for reference)]



PCR type has excellent pulse durability, about 3 times higher

【Power rating】

■ For resistors operated in ambient temperature above 70°C, power rating must be derated in accordance with the derating curve.

