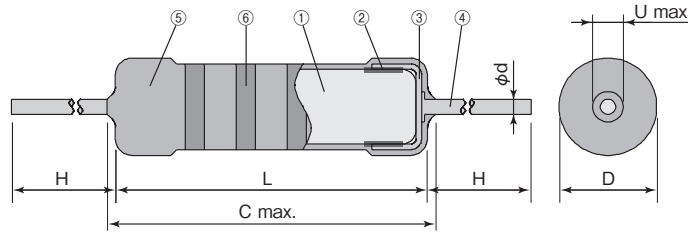


CERAMIC ANTI SURGE HIGH VOLTAGE PCF



STRUCTURE

- 1 Metal oxide composition
- 2 Inner electrode
- 3 Electrode cap
- 4 Lead wire
- 5 Coating
- 6 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
PCF	Light green	Color Code (R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

PCF	1	C	T631	R	473	M	
PRODUCT CODE	POWER RATING Unit: Watt 1/2, 1, 2	TERMINATION SURFACE MATERIAL C: SnCu	TAPING & FORMING	PACKAGING R: Reel	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE K: (±10%) M: (±20%)	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

*Please see "PACKAGING"

FEATURES

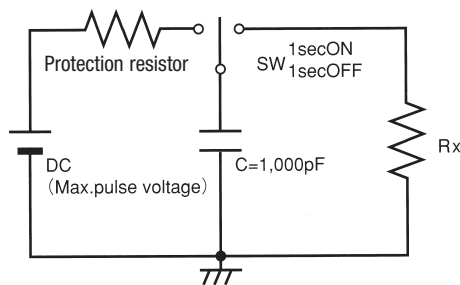
- KOA original ceramic resistor
- Excellent characteristic against high voltage surge current
- Higher reliability for disconnection failure compared to wirewound resistors and film resistors
- Able to replace carbon composition resistors in most applications
- Meets or exceeds IEC 60115-1, JIS C 5201-1
- Rated ambient temperature: +70°C
- Operating temperature range: -40°C... +200°C

DIMENSIONS (mm)

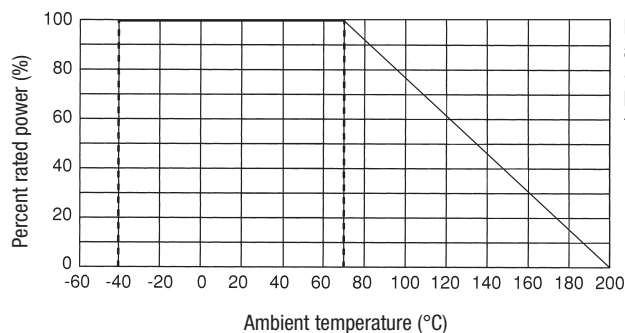
TYPE	L	ø D	C max.	U max.	ø d (nom.)	H
PCF 1/2 C	9.0 ± 1.0	3.5 ± 0.5	11.1	1.5	0.7	30 ± 3
PCF 1 C	16.5 ± 1.0	5.5 ± 1.0	19.0	2.2	0.8	38 ± 3
PCF 2 C	19.0 ± 1.0	7.0 ± 1.0	22.5	2.9	0.8	38 ± 3

RESISTANCE TO PULSE*

The resistor mounted to the test circuit as below is applied with high voltage impulse 10,000 cycles.



DERATING CURVE



For resistors operated in ambient temperature over +70°C, power rating shall be derated like shown in the "DERATING CURVE".

RATING

TYPE	T.C.R. (ppm/K)	POWER RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	IMPULSE* WITHSTANDING VOLTAGE	RESISTANCE RANGE	
							E12 K(±10%)	E6 M(±20%)
PCF 1/2 C	R < 100Ω: -900... ±300	0.5 W	200 V	400 V	500 V	10 kV	4.7Ω ... 100kΩ	4.7Ω...100kΩ
PCF 1 C	R ≥ 100Ω:	1.0 W	300 V	600 V	700 V	14 kV	3.3Ω ... 390kΩ	3.3Ω...390kΩ
PCF 2 C	-1300... ±300	2.0 W	400 V	800 V	700 V	20 kV	3.3Ω ... 390kΩ	3.3Ω...390kΩ

* Please refer to "RESISTANCE TO PULSE" circuit.

Rated voltage = √ Power rating x resistance value or max. working voltage, whichever is lower.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.