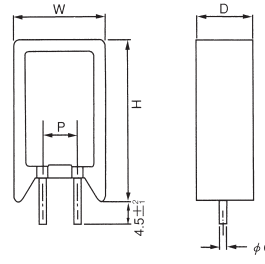
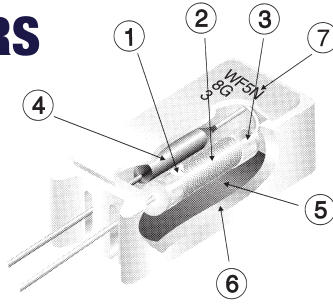
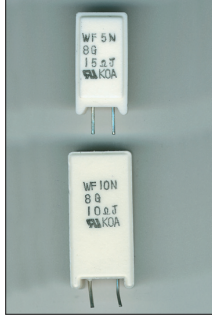


CIRCUIT PROTECTORS

**THERMAL FUSE
BUILT-IN RESISTORS**

WF



STRUCTURE

- 1 S-Type: ceramic core
G-Type: glass core
- 2 S-Type: trimmed metal oxide film
G-Type: resistive wire
- 3 Steel cap (Cu, Sn plated)
- 4 Thermal fuse
- 5 Special potting material
- 6 Steatite ceramic case
- 7 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
WF	White Ceramic Case	Alpha Numeric (Type, R-value and tolerance)

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

TYPE DESIGNATION (HOW TO ORDER)

WF	5N	C	8	G	100	J
PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL	THERMAL FUSE SYMBOL	RESISTOR MATERIAL	NOMINAL RESISTANCE	RESISTANCE TOLERANCE
	5N 7N 10N	C: SnCu	see below	G: Glass core wirewound S: Metall oxide film	3 digits	J: (±5%) K: (±10%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

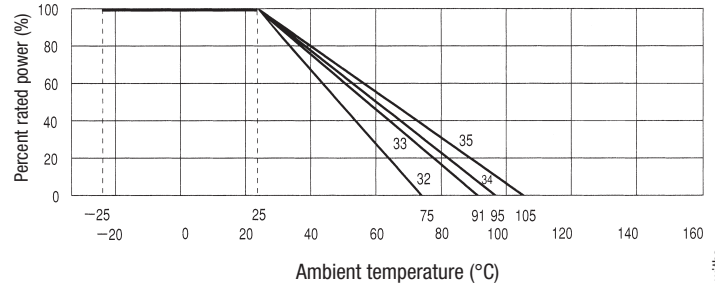
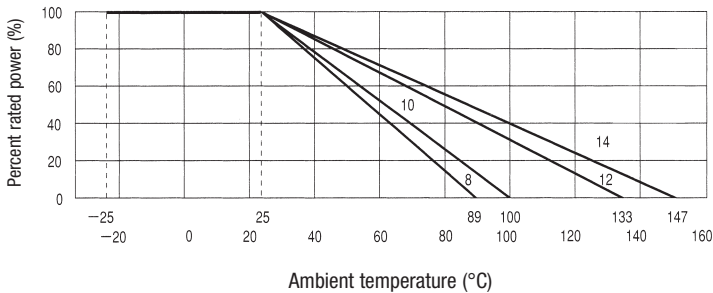
FEATURES

- Thermal fuse and power type resistor in one ceramic case
- UL 1412 recognized, (4.7Ω...100Ω, File No. E134679)
- Other combinations of thermal cut-off temperatures and resistance values are available on request
- Meets or exceeds IEC 60115-1, JIS C 5201-1
- Resistor materials:
G: Glass core
S: Metall oxide film

DIMENSIONS (mm)

TYPE	W ± 1.0	D ± 1.0	H ± 1.5	P ⁺² / ₋₁	φ d (Res. Lead)	φ d (Fuse Lead)
WF 5N	13	9	25.5	5	0.8	2 A: 0.6
WF 7N			38.5			10 A: 1.0
WF 10N	16	12	35	7.5		

DERATING CURVES



RATING

THERMAL FUSE SYMBOL	THERMAL FUSE			POWER RATING*			MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE (E24)	
	THERMAL CUT-OFF TEMP.	CURRENT RATING	VOLTAGE RATING	5N	7N	10N			MATERIAL G	MATERIAL S
				J (±5%) • K (±10%)	J (±5%)					
8	129 ± 2°C**	10 A	250 V	1.6 W	2.0 W	2.5 W	E = √P•R	E = √P•R•6.25	1 Ω ... 100 Ω	110 Ω ... 10 kΩ
10	152 ± 2°C			1.6 W	2.0 W	2.5 W				
12	188 ⁺³ / ₋₁ °C			2.0 W	2.4 W	3.5 W				
14	226 ⁺³ / ₋₁ °C			2.0 W	2.4 W	3.5 W				
32	110 ± 2°C	2 A		1.2 W	1.4 W	—				
33	126 ± 2°C			1.4 W	1.6 W	—				
34	130 ± 2°C**			1.6 W	2.0 W	—				
35	146 ⁺³ / ₋₂ °C			1.6 W	2.0 W	—				

* For resistors operated in ambient temperature over +25°C power rating be derated like shown in above „DERATING CURVES“.

** (STD) Standard

Rated voltage = √Power rating x resistance value Please contact KOA for special precautions before you order and use this series.

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 notice. Please confirm technical specifications before you order or use.