

## Metal Flameproof Fusible Resistors Type RFU Series

### △ Features

- Small in size, low cost
- Resistor provides circuit protection for overload or component failure
- Noncombustible insulating coat, solvent proof
- Uniform in fusing time
- Good TCR  $\pm 200$  PPM / °C

### △ Applications

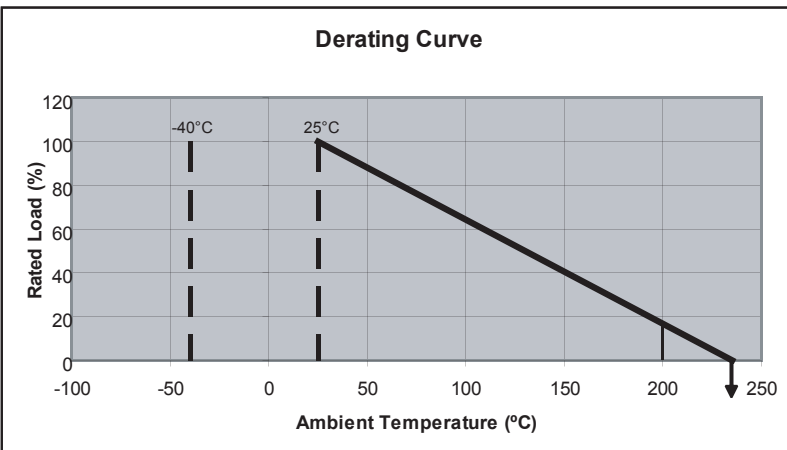
- Excellent application for high temperatures
- Suitable for use in transistor protection circuits
- Excellent for medical, telecom and consumer electronic equipment use.

### △ Dimensions

Type	Dimensions (mm)				Resistance Range	Max. Working Voltage	Dielectric Withstanding Voltage	
	L	D	d	H(MIN)				
1/4W	6.5±0.5	2.3±0.2	0.58±0.02	27	0.1Ω-100KΩ	250V	300V	
1/2WS	6.5±0.5	2.3±0.2	0.58±0.02	27	0.1Ω-100KΩ	250V	300V	
1/2W	1WS	9±0.5	4.0±0.2	0.65±0.02	25	0.1Ω-100KΩ	300V	500V
1W	2WS	11±0.5	4.5±0.2	0.78±0.02	27	0.1Ω-100KΩ	350V	500V
2W	3WS	15±0.5	5.5±0.2	0.78±0.02	27	0.1Ω-100KΩ	500V	500V

- Max overload voltage is 2 times of max working voltage.
- Tolerance will be  $\pm 10\%$  for values lower than 0.5 OHM.

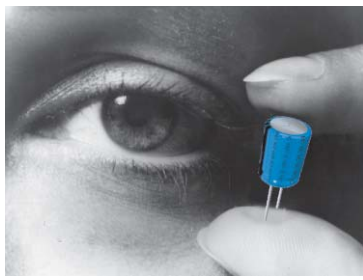
Fixed Component Resistors



### △ Fusing Characteristics

Power	Fusing Time		
	Minimum	Nominal	Maximum
16xWattage	3 Sec.	30 Sec.	1 Min.
20	2 Sec.	15 Sec.	30 Sec.
24	1 Sec.	5 Sec.	10 Sec.
28	0.8 Sec.	3 Sec.	7 Sec.
32	0.8 Sec.	2 Sec.	4 Sec.

- Same fusing chart for FMF, FKN, and FSQ series.

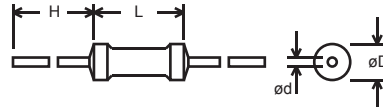


Fusible Wirewound Resistors  
Type RFU Series

△ Characteristics

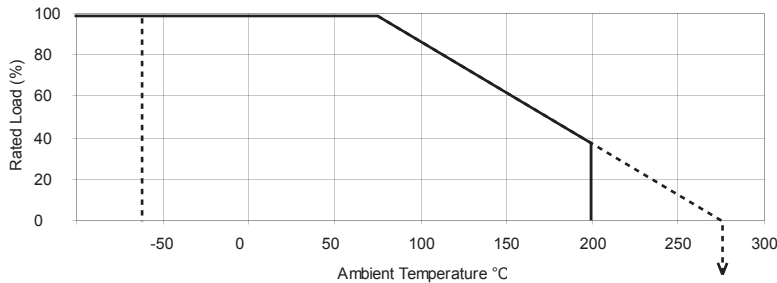
Characteristics	Condition	Spec.
Operating Temp	-40°C ~ 240°C	
Resistance Temp. Coefficient	-30°C ~ 150°C	±200ppm/°C
Shot Time Overload	4 Times of Rated Wattage for 5 Secs.	±2%
Insulation Resistance	500V Megger	1,000MΩ
Temp. Cycle	-30°C ~ 85°C for 5 Cycles	±1%
Load Life	25°C On-Off Cycle, 1000hrs	±5%
Moisture-Proof Load Life	40°C 95% RH On-Off Cycle, 1000hrs	±5%
Solder Pot	270°C for 3 Secs	±1%
Incombustibility	16 Times of Rated Wattage for 5 Min.	Not Flamed

\*Total Resistance Change / (ΔR% + 0.05Ω)



△ Dimensions

Style	Power Rating	Dimension (mm)				Resistance Range	Dielectric Withstanding Voltage
		L ± 1.5	D ± 1	H (Min)	d ± 0.05		
RFU	1W	9	4.5	25	0.65	0.1Ω - 72Ω	500V
	2W	11	5.0	27	0.8	0.1Ω - 60Ω	500V
	3W	13	5.5	27	0.8	0.1Ω - 100Ω	500V
	4W	17	6.5	27	0.8	0.2Ω - 200Ω	500V
	5W	19	6.5	27	0.8	0.3Ω - 250Ω	500V



Test Items	Condition	Spec.
Operating Temp	-55°C ~ 275°C	
Resistance Temp. Coefficient	-30°C ~ 150°C	±300ppm/°C
Shot Time Overload	2.5 Times of Rated Wattage for 5 Secs.	±2%
Insulation Resistance	500V Megger	1,000MΩ
Temp. Cycle	-30°C ~ 85°C for 5 Cycles	±1%
Load Life	70°C On-Off Cycle, 1000hrs	±5%
Moisture-Proof Load Life	40°C 95% RH On-Off Cycle, 1000hrs	±5%
Solder Pot	270°C for 3 Secs	±1%
Incombustibility	16 Times of Rated Wattage for 5 Min.	Not Flamed

Fixed Component Resistors