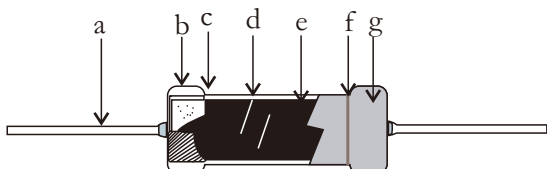




● Features

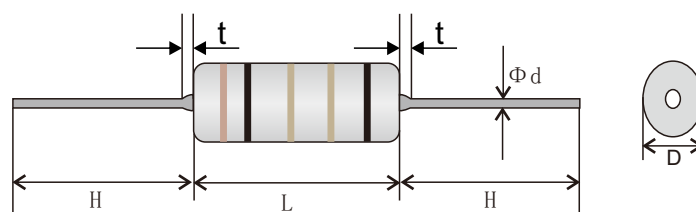
- I Function as a resistor in normal operation condition.
- II Quick fusing protects circuit from excessive over load.
- III Approvals awarded; UL 1412 File No.E341249.
- IV Products meet EU-RoHS.

● Construction



a	Lead wire
b	Cap
c	Ceramic base
d	Helical cutting groove
e	Film
f	Marking or color code
g	Insulation coat

● Dimensions



Type	Dimensions(mm)					Weight(g) (1000pcs)
	L	t Max	D	Φd	H	
RFU 1/6, RFS 1/4	3.3±0.3	1.5	1.7±0.3	0.45±0.05	27±3	120
RFU 1/4, RFU 1/3, RFS1/2	6.0±0.3	1.5	2.4±0.3	0.6±0.05	28±3	218
RFU 1/2, RF S1	9±0.5	2.0	3.0±0.5		30±3	320
RFU 1, RFS 2	12±1	2.5	4.5±0.5	0.8±0.05	38±3	780
RFU 2, RFS 3	16±1	2.5	5.5±0.5			1450

● Ordering Information

Example:

RFU/S	14	J	R100
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1) Type: RFU/S SERIES

(2) Power Rating: 14=1/4W, 12=1/2W, 1=1W, 2=2W, 3=3W

(3) Tolerance: J=±5%

(4) Resistance Value: R100=0.1R, 1R00=1Ω, 10R0=10Ω, 100R0=100Ω

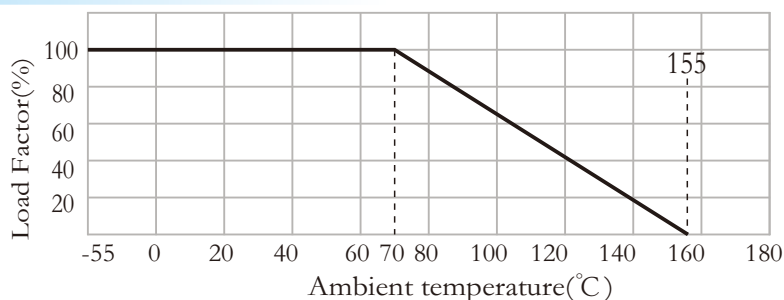
● Reference Standards

JISC 5201-1

Applications And Ratings

Type	Resistance Range(Ω)	MaxWorking Voltage	MaxOverload Voltage	Dielectric Withstanding Voltage	T.C.R
	J \pm 5%(E24)				
RFU 1/6,RFS 1/4	0.1-1K	100V	150V	200V	\pm 100PPM/ $^{\circ}$ C
RFU 1/4,RFU 1/3	0.1-15K	250V	300V	250V	
RFS 1/2,RFS 1	0.1-33K	250V	300V	250V	
RFU 1/2	0.1-4.7K	250V	300V	300V	
RFU 1,RFU 2,RFS 2,RFS 3		350V	500V	300V	

Derating Curve



Fusing Characteristics(Reference)

FUSING characteristics (Residual resistance \geq 100 times nominal resistance)

Rated Power	Resistance Range	$\sqrt{40PR}$	$\sqrt{30PR}$	$\sqrt{25PR}$	$\sqrt{16PR}$	Fusing Time
RFU1/6W 、 RFS1/4W	0.10-1K Ω	0.10-0.18 Ω	0.2-0.47 Ω	0.51-1K Ω	.....	60sMAX
RFU1/4W 、 RFU1/3W	0.10-15K Ω	0.10-0.22 Ω	.....	0.24-9.1 Ω	10-15K Ω	60sMAX
RFS1/2W	0.10-33K Ω	.....	.....	0.10-1.0 Ω	1.1-33K Ω	60sMAX
RFS1W	0.10-33K Ω	.....	.....	0.10-1.0 Ω	1.1-33K Ω	60sMAX
RFU1/2W	0.10-4.7K Ω	0.10-0.33 Ω	0.47-0.91 Ω	1.0-9.1 Ω	10-4.7K Ω	60sMAX
RFU1W 、 RFS2W	0.10-4.7K Ω	.....	.....	0.10-1.0 Ω	1.1-4.7K Ω	60sMAX
RFU2W 、 RFS3W	0.10-4.7K Ω	.....	.....	0.10-1.0 Ω	1.1-4.7K Ω	60sMAX

Performance

Test Items	Performance Requirements	Test Methods(JIS C 5201-1)
Resistance	Within specified tolerance	Measuring points are 10mm from the end cap
T.C.R.	Within specified T.C.R	Room temperature+100 $^{\circ}$ C
Short time overload	\pm (2%R+0.05 Ω)	4 times the rated power for 5 seconds
Load life	\pm (5%R+0.1 Ω)	Rated voltage at 70 $^{\circ}$ C for 1,000 hours 1.5hr ON/0.5hr OFF Cycles
Load life in humidity	\pm (5%R+0.1 Ω)	Rated voltage at 40 $^{\circ}$ C ,95%RH for 1,000 hours
Moisture resistance	\pm (1%R+0.05 Ω)	40 $^{\circ}$ C ,95%RH for 240 hours
Temperature cycle	\pm (1%R+0.05 Ω)	5 cycles for -25 $^{\circ}$ C (30min);room temp.(30min) ~+85 $^{\circ}$ C (30min)room temp.(30min)
Solderability	95%(min)coverage	Temp. of solder 245 $^{\circ}$ C \pm 5 $^{\circ}$ C duration of immersion3s \pm 0.5s
Resistance to soldering heat	\pm (1%R+0.05 Ω)	260 $^{\circ}$ C \pm 5 $^{\circ}$ C for 10 seconds 350 $^{\circ}$ C \pm 10 $^{\circ}$ C for 3.5 seconds
Insulation resistance	> 1,000M Ω	500V insulation test 1min.