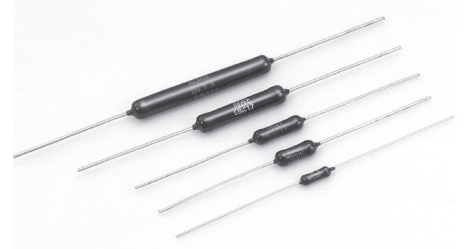


RU TYPE

Ultrahigh Precision High Accuracy Resistors



The RU type resistors have higher reliability when they are mounted on board, and excellent long term stability.

These are used mainly in semi-conductor equipments, X-ray apparatuses, and other many measuring instruments.

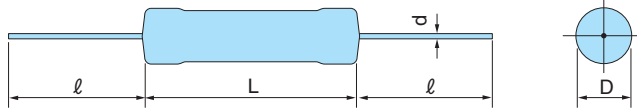
FEATURES

- Small temperature coefficient, small resistance tolerance.
- Small in size, light weight, high reliability and excellent long-term stability.
- Strong resistance for pulse voltages.
- Strong thermal shock resistance when they are mounted on board.

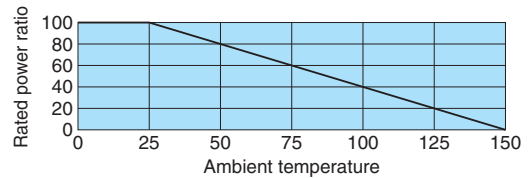
CHARACTERISTICS

Item	Characteristics	Test method
Operating temperature range	-55°C~+150°C	
Short-time overload	±0.1%	Rated voltage×2.5 applied for 5sec.
Resistance to soldering heat	±0.1%	260°C 10sec. or 380°C 3sec.
Heat cycle	±0.1%	-55°C ⇄ +150°C 5 cycle
Long-term stability	±0.3%	At normal temperature and humidity for 10,000hrs. without load
Moisture resistance	±0.3%	40°C 90~95%RH 1,000hrs. exposure without load
Load life	±0.5%	25°C Rated power×1/2 3,000hrs.
Temperature coefficient	※1 A ±10 B ±25 C ±50 D ±100 ppm/°C	Measured at 25°C and 75°C

● Shape



● Derating Curve



Type	Characteristics		Range of resistance values		Rated Power (W)	Max. working voltage DC (kV)	Impulse voltage(kV) 1.2×50 μsec	Dimensions (mm)				Resistance tolerance (%)
	Symbol	Temperature coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)				L	D	ℓ	d	
RU1/4	B	±25	0.1	100	1/4	0.75	1.5	9±1	3±1	38±3	0.6±0.05	±0.1 (B) ±0.25 (C)
	C	±50	0.1	100								
	D	±100	0.1	100								
RU1/2	B	±25	0.1	100	1/2	1.5	3	13±1	4.5±1	38±3	0.8±0.05	
	C	±50	0.1	100								
	D	±100	0.1	100								
RU1	B	±25	0.1	100	1	2	4	14.5±1	4.5±1	38±3	0.8±0.05	
	C	±50	0.1	100								
	D	±100	0.1	100								
RU2	B	±25	0.1	100	2	5	10	26.5±1	5.5±1	38±3	1±0.05	
	C	±50	0.1	100								
	D	±100	0.1	100								
RU3	B	±25	0.2	100	3	10	20	42±2	5.5±1	38±3	1±0.05	
	C	±50	0.2	100								
	D	±100	0.2	100								

NOTICE : ※1 Also consult your local dealer for the availability of resistors with a temperature coefficient of 'A' characteristic.

<CAUTION>

Rated power recommend derate less than 50% for long term use.