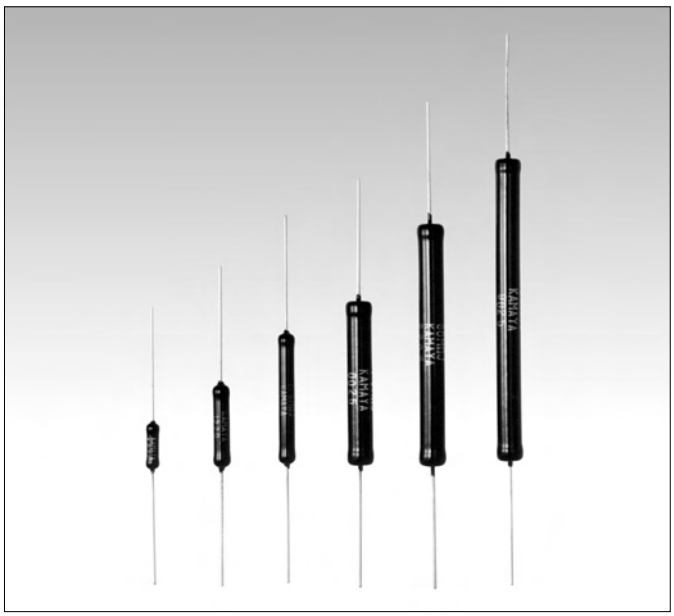
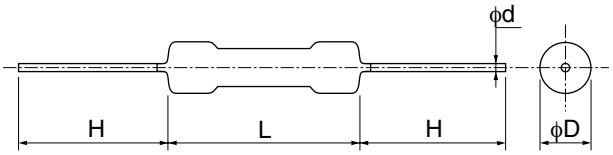
RH

●Features

1. This product has a low temperature coefficient of resistance and features a choice of 100×10^{-6}/°C (K type) and 200×10^{-6}/°C (D type).
2. Extremely stable characteristics.
3. A wide range of high resistance values available.
4. Various resistance tolerance available.
5. Most suitable resistor for high-tension circuits in which high precision is required for example the physical and chemical measurement equipment, X-ray apparatus, electron microscope and the like.



●Dimensions



*Dimension "L" should be measured between both side of D/2.

Unit : mm

Style	L	D	H	d	*Unit Weight/pc.
RH 1	14.5±1.0	4.0±1.0	38±3	0.8	950mg
RH 2	26.5±1.0	5.0±1.0	38±3	1.0	1,950mg
RH 3	39.0±2.0	5.0±1.0	38±3	1.0	2,410mg
RH 4	52.0±2.0	9.0±1.0	38±3	1.0	6,880mg
RH 6	77.0±2.0	9.0±1.0	38±3	1.0	9,290mg
RH 8	97.0±2.0	9.0±1.0	38±3	1.0	11.46g

*Values for reference

Note. Please contact KAMAYA for the details of marking.

●Part Number Description

Example

Style

RH	8	D	500M	J	B
Product Type	Rated power	* Temperature Coefficient of Resistance	Rated Resistance	Tolerance on Rated Resistance	Packaging

Rated power	
1	1.0W
2	2.0W
3	3.0W
4	4.0W
6	6.0W
8	8.0W

* Temperature Coefficient of Resistance	
K	±100×10^{-6}/°C
D	±200×10^{-6}/°C

Rated Resistance
Available on demand
e.g.: 100M=100M ohm 1G00=1G ohm

Tolerance on Rated Resistance	
F	± 1%
G	± 2%
J	± 5%
K	±10%

Packaging	
B	Bulk

*Marking and label indication for Temperature Coefficient Resistance
HVD : ±100×10^{-6}/°C
HVS : ±200×10^{-6}/°C

FIXED HIGH VOLTAGE RESISTORS; PRECISION RH

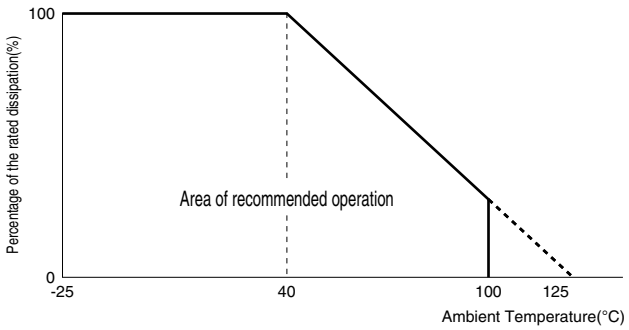
●Ratings

Style	Rated Dissipation W	Limiting Element Voltage kV	Maximum Overload Voltage kV	Pulse Voltage kV	Combination of Temperature Coefficient of Resistance and rated Resistance Range		Tolerance on Rated Resistance
					Rated Resistance Range M ohm	Temperature Coefficient of Resistance 10^{-6}/°C	
RH 1	1.0	1.5	4	4			
RH 2	2.0	5	12.5	7.5			F (± 1%)
RH 3	3.0	10	25	15	1≤R≤500	±100	G (± 2%)
RH 4	4.0	15	30	20	500<R≤5,000	±200	J (± 5%)
RH 6	6.0	20	40	30			K (±10%)
RH 8	8.0	30	60	40			

Note1. Rated Voltage= $\sqrt{(\text{Rated Dissipation})\times(\text{Rated Resistance})}$. (d.c. or a.c. r.m.s. Voltage)
Note2. Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.
Note3. Critical Resistance Value is the resistance value at which the rated voltage is equal to the limiting element voltage.

●Derating Curve

The derated values of dissipation for temperatures in excess of 40°C shall be indicated by the following Curve.



●Performance Characteristics

Description	Requirements	Test Method JIS C5202-1990	
Resistance	Within specified tolerance	clause 5.1	
Temperature characteristic of resistance	See Ratings Table	clause 5.2	Room temperature and 80°C above.
Overload	Within ±1% No major visible damage	clause 5.5	Condition A Rated voltage × 2.5, 5s
Insulation resistance	At least 1,000M ohm	clause 5.6	Condition A 500Vd.c., 60s
Pulse endurance	Within ±1% No major visible damage	Apply (1.2×50)μs pulse wave 10,000 times 10s each. See ratings table for pulse Voltage.	
Bond Strength of the face plating — Pulling	Lead is not cut Terminal is not loose	clause 6-1-2(1)	25N, 10s
Bond Strength of the face plating — Bending		clause 6-1-2(4)	90°C, opposite directions 5 times.
Solderability	At least 3/4 of the dipping surface must be covered by new solder	clause 6.5	260°C, 5s
Rapid change of temperature	Within ±1% No major visible damage, legible marking	clause 7.4	–25°C/+85°C for 5 cycles.
Humidity (Normal Condition)	Within ±5% No major visible damage	clause 7.5	40°C, 95%R.H., 1,000h.
Endurance at 70°C	Within ±5% No major visible damage	clause 7.10	Rated voltage, 1.5h "ON", 0.5h "OFF", 40°C, 1,000h.

*We have equivalent products for the use in insulating oil. Please contact us for further information.