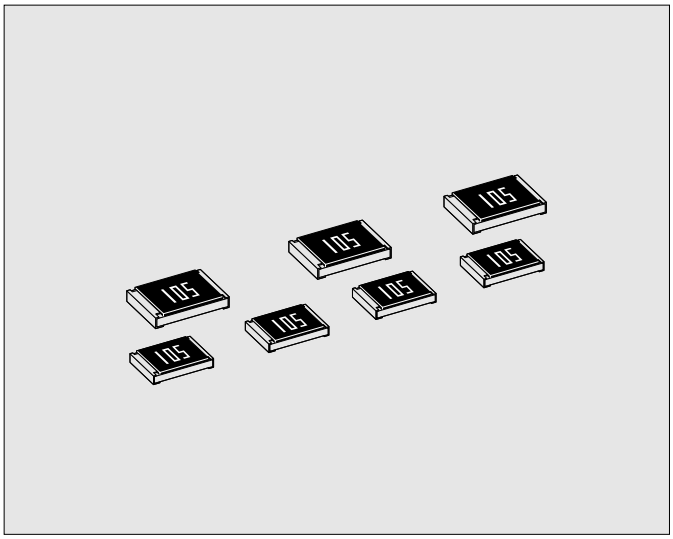
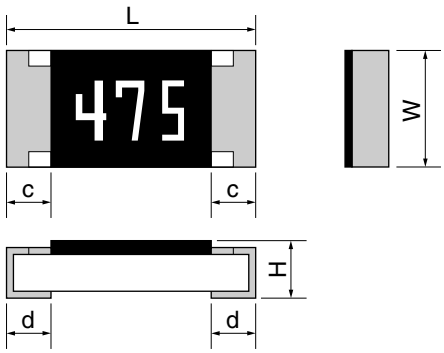
RZC

●Features

1. Endurance in the rushing into voltage of 3,000V.
   Note:3,000V, 1sec "On", 9sec"off" ,100,000 times, Room temperature.
2. Higher Limiting Element Voltage than RVC series.
3. Please contact KAMAYA for Halogen and Antimony free product of RZC series.
4. Stability Class: 5%



●Dimensions



Rated resistace is marked with 3-digit(E24) on the over coating.

Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit/weight/pc.
RZC50	**5025**	**2010**	5.0±0.15	2.5±0.15	0.55±0.15	0.5±0.2	0.6±0.2	25mg
RZC63	**6332**	**2512**	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.2	0.6±0.2	40mg

*Values for reference

●Part Number Description

Example

Style

RZC	50	—	475	J	TE

Product Type

Size		
Code	Metric	Inch
50	5025	2010
63	6332	2512

Rated Resistance

e.g.:105=1.0M ohm
475=4.7M ohm
166=16M ohm

Tolerance on Rated Resistance

J	± 5%
K	±10%
M	±20%

Temperature Coefficient of Resistance

—	Standard

* Packaging & Standard Qty. (Min.)

B	Bulk (Loose Package)	1,000pcs.	All Styles
TE	Paper Tape	4,000pcs.	All Styles

*Refer to Tape and Packaging information on pages 52 and 53.

FIXED THICK FILM CHIP RESISTORS;RECTANGULAR TYPE & ULTRA HIGH VOLTAGE RZC

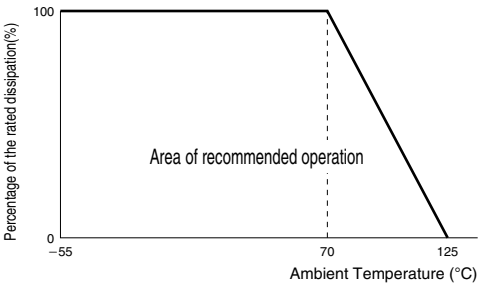
●Ratings

Style	Size Metric (Inch)	Rated Dissipation at 70°C W	Limiting Element Voltage V	Anti-Rush Voltage Charactoristics V	Rated Resistance Range	Tolerance on Rated Resistance	Temperature Coefficient of Resistance 10^{-6}/°C	Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
RZC50	5025 (2010)	0.5	1500	3000	1.0MΩ～16MΩ	J(±5%) K(±10%) M(±20%)	±200	E24	500	−55～+125
RZC63	6332 (2512)	1.0	2000							

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 values is equal to or higher than the critical resistance value.
Note3. Anti-Rush Voltage Charactoristics : 3,000V, 1sec "On", 9sec"off" ,100,000 times, Room temperature.

●Derating Curve

The derated values of dissipation for temperatures in excess of 70°C shall be indicated by the following Curve.



●Climatic Category

55/125/56

Lower Category Temperature	−55°C
Upper Category Temperature	+125°C
Duration of the Damp heat, Steady-State Test	56 days

●Performance Characteristics JIS C 5201-1 : 1998

Description	Requirements	Test Methods
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 500Va.c.,60s
Variation of resistance with temperature	See Ratings Table	Clause 4.8 Measuring temperature : +20°C/−55°C /+20°C/+125°C/+20°C
Overload	ΔR≤±(1%+0.05 ohm) No visible damage, legible marking	Clause 4.13 The applied voltage shall be 2.5 times of the rated voltage or twice of the limiting element voltage, whichever is the less severe, 2s.
Solderability	In accordance with Clause 4.17.4.5	Clause 4.13 235°C, 2s
Resistance to soldering heat	ΔR≤±(1%+0.05 ohm)	Clause 4.18 After immersion into the flux, the immersion into solder shall be carried out in Solder bath at 260°C for 5s.
Rapid change of temperature	ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.19 5 cycles between −55°C and +125°C.
Climatic sequence	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.23 Dry/Damp heat(12+12h cycle), first cycle./ Cold/Damp heat(12+12h cycle), remaining cycle./ D.C.Load.
Damp test, steady state	ΔR≤±(5%+0.1 ohm) No visible damage, legible marking	Clause 4.24 40°C, 95%R.H., 56 days, test a) and b) of Clause 4.24.2.1
Endurance at 70°C	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.1 Rated voltage, 1.5h"ON", 0.5h"OFF", 70°C, 1,000h.
Endurance at the upper category temperature	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.3 125°C, no-load, 1,000h.
Adhesion	No visible damage	Clause 4.32 5N, 10s
Bend strength of the face plating	ΔR≤±(1%+0.05 ohm)	Clause 4.33 Amount of bend : 1 mm