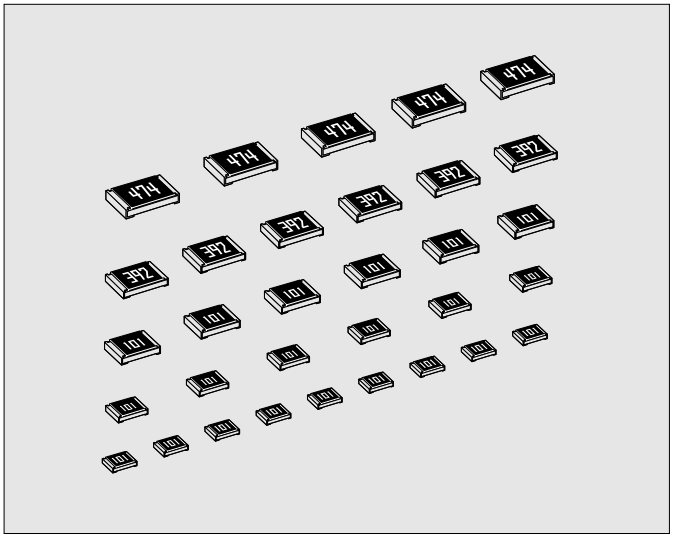
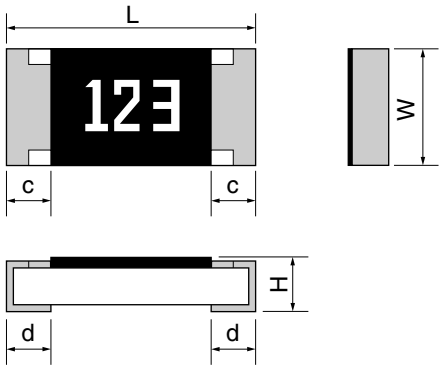
RPC

●Features

1. Higher Anti surge performance compared with RMC (general use)
2. Please contact KAMAYA for Halogen and Antimony free product of RPC series.
3. Stability Class : 5%



●Dimensions



Rated resistance value is marked with 3-digit on the over coating.

Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RPC20	**2012**	**0805**	2.0±0.1	1.25 ±0.10	0.55±0.10	0.3±0.2	0.4±0.2	5mg
RPC32	**3216**	**1206**	3.2±0.15	1.6 ±0.15	0.55±0.10	0.3±0.2	0.5±0.25	9mg
RPC35	**3225**	**1210**	3.2±0.15	2.5 ±0.15	0.55±0.15	0.3±0.2	0.5±0.25	16mg
RPC50	**5025**	**2010**	5.0±0.15	2.5 ±0.15	0.55±0.15	0.3±0.15	0.6±0.2	25mg
RPC63	**6332**	**2512**	6.3±0.15	3.2 ±0.15	0.55±0.15	0.3±0.15	0.6±0.2	40mg

*Values for reference

●Part Number Description

Example

Style

RPC	50	103	J	TE

RPC — Product Type

50 — Size

Code	Metric	Inch
20	2012	0805
32	3216	1206
35	3225	1210
50	5025	2010
63	6332	2512

103 — Rated Resistance

E24 Series e.g. : 2R2=2.2 ohm 103=10k ohm	3-Digit

J — Tolerance on Rated Resistance

J	± 5%
K	±10%
M	±20%

TE — * Packaging & Standard Qty. (Min.)

B	Bulk (Loose Package)	1,000pcs.	All Styles
TP	Paper Tape	5,000pcs.	RPC20 RPC32
TE	Embossed Tape	4,000pcs.	RPC35 RPC50 RPC63

*Refer to Tape and Packaging information on pages 54 and 55.

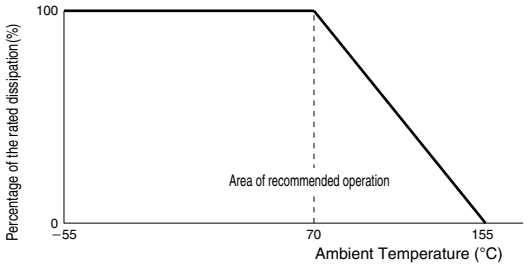
●Ratings

Style	Size Metric (Inch)	Rated Dissipation at 70°C W	Combinations of Rated Resistance Range and Temperature Coefficient of Resistance		Tolerance on Rated Resistance	Limiting Element Voltage V	Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
			Rated Resistance Range	Temperature Coefficient of Resistance 10^{-6}/°C					
RPC20	2012 (0805)	0.125	0.27Ω~0.91Ω	±200	J (± 5%)	150	E24	500	−55~+155
RPC32	3216 (1206)	0.25	1Ω~ 1MΩ	±100	K(±10%)	200			
RPC35	3225 (1210)	0.5	1.1M~22MΩ	±200	M(±20%)				
RPC50	5025 (2010)	0.75							
RPC63	6332 (2512)	1.0							

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 70°C shall be indicated by the following Curve.

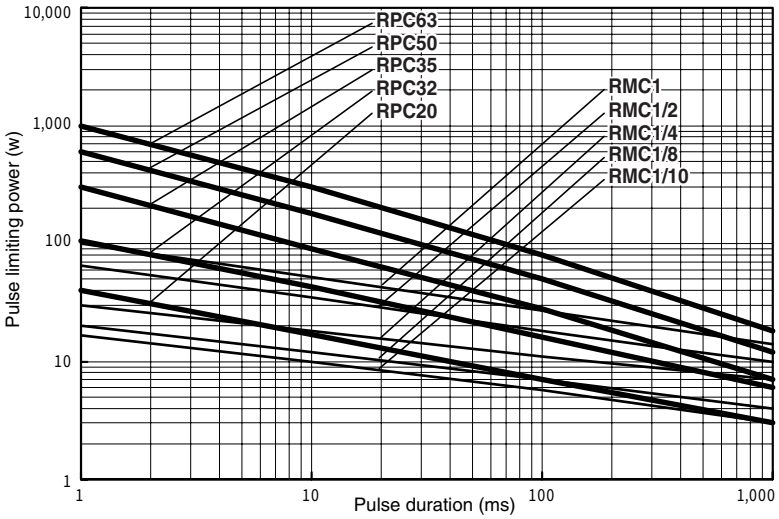


●Climatic Category

55/155/56

Lower Category Temperature	−55°C
Upper Category Temperature	+155°C
Duration of the Damp heat, Steady-Style Test	56 days

●1Pulse Limiting Power Curve (e.g 100Ω value for reference)



* pulse limiting power curve is different from resistance value.
* Please contact Kamaya sales department for the details.

●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 +20°C/−55°C/+20°C/+155°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 4.17 235°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 Cycle : −55°C/+155°C 5times
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 4.25.3 155°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 RPC20, 32, 35 Amount of bend : 3 mm RPC50, 63 Amount of bend : 1 mm

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