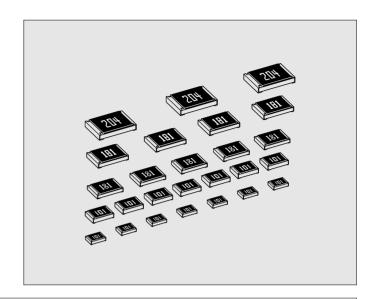
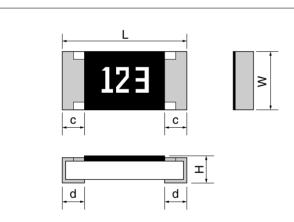
RVC

Features

- 1. Higher Limiting Element Voltage compared with RMC (general use)
- 2. Please contact KAMAYA for Halogen and Antimony free product of
- 3. Stability Class: 5%



Dimensions



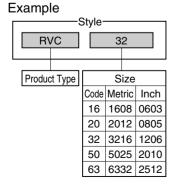
Rated resistance is marked with 3-digit (E24) or 4-digit (E96) on the over coating. RVC16: only 3digit marking is available.

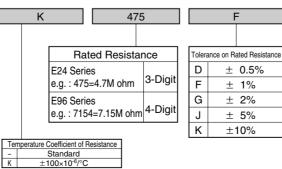
Unit : mm

Style	Metric	Inch	L	W	Н	С	d	*Unit weight/pc.
RVC16	1608	0603	1.6±0.1	0.8 +0.15 -0.05	0.45±0.10	0.3 ± 0.1	0.3 ±0.1	2mg
RVC20	2012	0805	2.0±0.1	1.25±0.10	0.55±0.10	0.4 ± 0.2	0.4 ±0.2	5mg
RVC32	3216	1206	3.2±0.15	1.6 ±0.15	0.55±0.10	0.5 ± 0.25	0.5 ±0.25	9mg
RVC50	5025	2010	5.0±0.15	2.5 ±0.15	0.55±0.15	0.6 ± 0.2	0.6 ± 0.2	25mg
RVC63	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





	TP							
	* Packaging & Standard Qty. (Min.)							
	В	Bulk (Loose Package)	1,000pcs.	All Styles				
	TP	Paper Tape	5,000pcs.	RVC16 RVC20 RVC32				
J	TE	Embossed Tape	4,000pcs.	RVC50 RVC63				
*D	*Pofor to Tone and Booksaina information on pages 50 and 50							

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

RVC

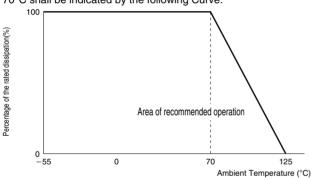
Ratings

			Limiting Element Voltage	Combinations of Rated Resistance Range and Tolerance on Rated Resistance			Temperature Coefficient of Resistance		Isolation Voltage	Category Temperature	
Style	Metric (Inch)	W W	Vollage	D(±0.5%)	F(±1%), G(±2%)	J(±5%), K(±10%)	Code	10 ⁻⁶ /∞C	Voltage	Range °C	
RVC16	DVC40 1608 0.4		200	_	470Ω ~	~ 10MΩ	K	±100	100		
NVC10	RVC16 (0603) 0.1	_		$47\Omega \sim 464\Omega$		_	±200	100			
RVC20	2012	0.125	0.125 400	_	$100\Omega{\sim}10M\Omega$	$100\Omega{\sim}51M\Omega$	K	±100			
NV020	(0805)	0.123	400	_	$47\Omega \sim 97.6\Omega$		_	±200			
RVC32	3216	0.25	500	100kΩ \sim 4.7MΩ	$100\Omega{\sim}10M\Omega$	$100\Omega{\sim}51M\Omega$	K	±100			
NVU32	(1206)	0.25		500	_	47Ω ~	~ 97.6Ω	_	±200		−55~+125
DVC50	RVC50 5025 (2010) 0.5	0.5	300	_	$470\Omega{\sim}20M\Omega$	$470\Omega{\sim}51M\Omega$	K	±100	500		
HVC30		0.5		_	$47\Omega \sim 464\Omega$		_	±200			
0000	2000		_	$560\Omega{\sim}20M\Omega$	$560\Omega{\sim}51M\Omega$	K	±100				
RVC63	RVC63 6332 (2512)	1 10	800	_	$100\Omega\sim549\Omega$		_	±200			
(2312)							_	47Ω ~	~ 97.6Ω	_	+500~-200

- Note1. E24 series is available , E96 series is available for tolerance "D" (0.5%) and "F" (1%)
- Note2. Rated Voltage = $\sqrt{\text{(Rated Dissipation)} \times (\text{Rated Resistance})}$. (d.c. or a.c. r.m.s. Voltage)
- Note3. Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.
- Note4. 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

55/125/56

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 RVC16 100Va.c.,60s RVC20~RVC63 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 4.17 235°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 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 RVC16~RVC32 Amount of bend: 3 mm RVC50, 63 Amount of bend: 1 mm