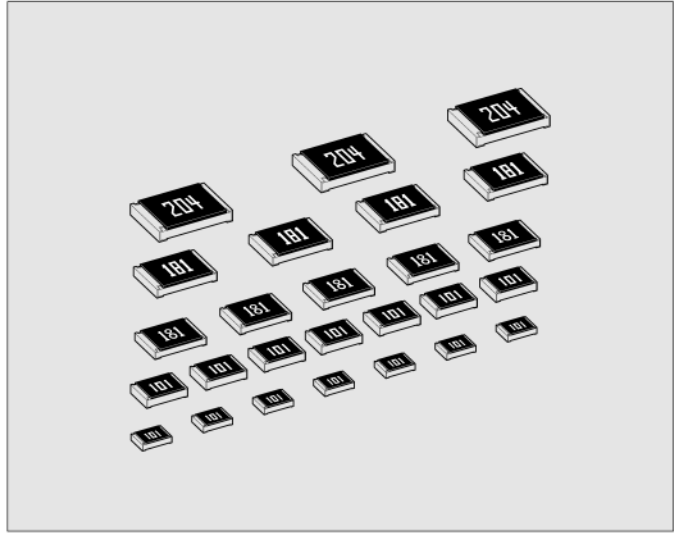


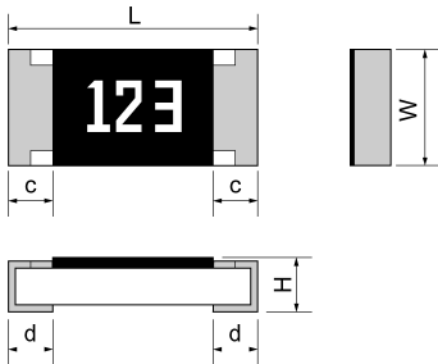
RVC

●Features

1. Higher Limiting Element Voltage compared with RMC series.
2. Stability Class : 5%



●Dimensions



Rated resistance is marked with 3-digit (E24 series) or 4-digit (E96 series) on the over coating.
RVC16 4-digit marking is not available.

Unit : mm

Style	Metric	Inch	L	W	H	c	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

Example

Style		K		475		F		TP	
RVC									
32									
Product Type		Size		Rated Resistance		Tolerance on Rated Resistance		* Packaging & Standard Qty. (Min.)	
		Code Metric Inch		E24 Series		F ± 1%		B Bulk (Loose Package)	
		16 1608 0603		e.g. : 475=4.7M ohm		G ± 2%		1,000pcs.	
		20 2012 0805		3-Digit		J ± 5%		5,000pcs.	
		32 3216 1206		E96 Series		K ± 10%		RVC16	
		50 5025 2010		e.g. : 7154=7.15M ohm				RVC20	
		63 6332 2512		4-Digit				RVC32	
								TE Embossed Tape	
								4,000pcs.	
								RVC50	
								RVC63	

*Refer to Tape and Packaging information on pages 38 and 39.

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE & HIGH VOLTAGE

RVC

●Ratings

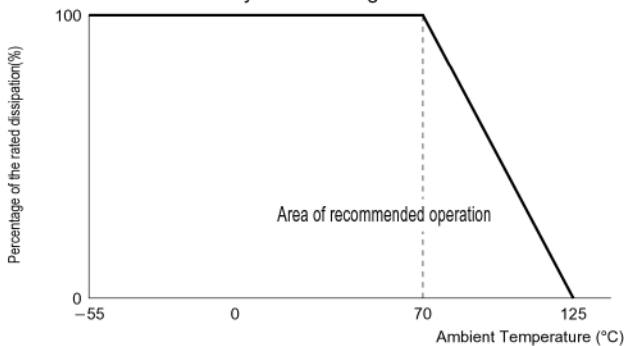
Style	Size Metric (Inch)	Rated Dissipation at 70°C W	Limiting Element Voltage V	Temperature Coefficient of Resistance		Combinations of Rated Resistance Range and Tolerance on Rated Resistance		Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
				Code	10 ⁻⁶ /°C	F(±1%) , G(±2%)	J(±5%) , K(±10%)			
RVC16	1608 (0603)	0.1	200	K	±100	470Ω ~ 10MΩ		F(±1%)	100	-55~+125
				—	±200	47Ω ~ 464Ω				
RVC20	2012 (0805)	0.125	300	K	±100	100Ω~10MΩ	100Ω~51MΩ	G(±2%)	500	
				—	±200	47Ω ~ 97.6Ω				
RVC32	3216 (1206)	0.25	400	K	±100	100Ω~10MΩ	100Ω~51MΩ	E96series	500	
				—	±200	47Ω ~ 97.6Ω				
RVC50	5025 (2010)	0.5	500	K	±100	470Ω~20MΩ	470Ω~51MΩ	J(± 5%)	500	
				—	±200	47Ω ~ 464Ω				
RVC63	6332 (2512)	1.0	800	K	±100	560Ω~20MΩ	560Ω~51MΩ	K(±10%)	500	
				—	±200	100Ω ~ 549Ω				
				—	±500~-200	47Ω ~ 97.6Ω				

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.

●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 $R \geq 1G$ 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	$\Delta R \leq \pm(1\% + 0.05 \text{ ohm})$ 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	$\Delta R \leq \pm(1\% + 0.05 \text{ ohm})$	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	$\Delta R \leq \pm(1\% + 0.05 \text{ ohm})$ No visible damage	Clause 4.19 5 cycles between -55°C and +125°C.
Climatic sequence	$\Delta R \leq \pm(5\% + 0.1 \text{ ohm})$ 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	$\Delta R \leq \pm(5\% + 0.1 \text{ ohm})$ 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	$\Delta R \leq \pm(5\% + 0.1 \text{ ohm})$ 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	$\Delta R \leq \pm(5\% + 0.1 \text{ ohm})$ 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	$\Delta R \leq \pm(1\% + 0.05 \text{ ohm})$	Clause 4.33 RVC16~RVC32 Amount of bend : 3 mm RVC50, 63 Amount of bend : 1 mm