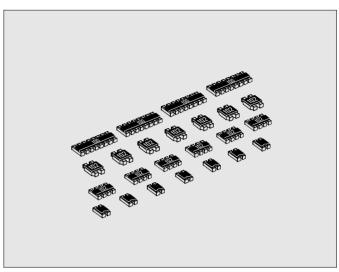
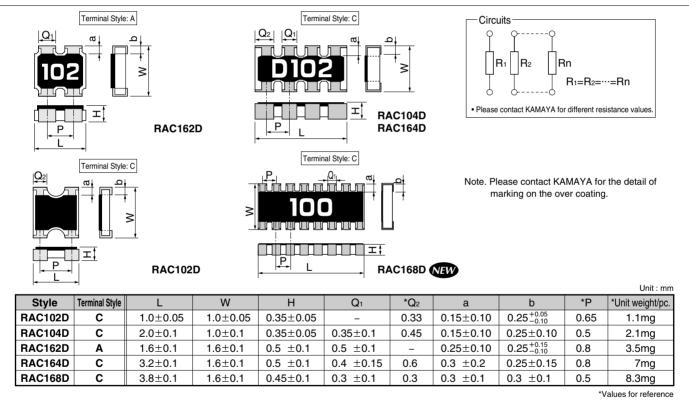
# RAC

#### Features

- 1. High-density SMD packaging contributes higher productivity and reduces assembly costs.
- 2. Stability Class: 5%

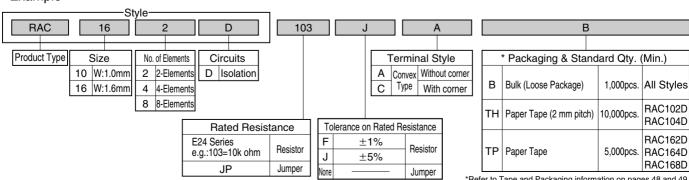


#### Dimensions and Circuits



### Part Number Description

Example



# FIXED CHIP RESISTOR NETWORKS; RECTANGULAR TYPE

### Ratings

Style	at 70°C		Rated Current of Jumper	Rated Resistance Range	Tolerance on Rated Resistance	Temperature Coefficient of Resistance	Limiting Element Voltage	Series for	Isolation Voltage	Category Temperature Range
	W/Element	W/pc.	A	riango	Tratou Frodictario	10 <sup>-6</sup> /°C	V	Resistors	٧	°C
RAC102D	0.063	0.125	1.0	10Ω~1ΜΩ	J(±5%)	±200	25	E24	50	-55~+125
RAC104D		0.25								
RAC162D		0.125					50		100	
RAC164D		0.25			F(±1%)J(±5%)					
RAC168D		0.25			J(±5%)		25			

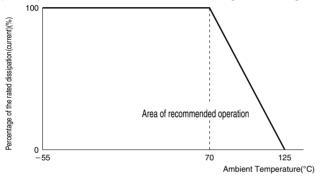
Note1. Rated Voltage =  $\sqrt{\text{(Rated Dissipation)} \times (\text{Rated Resistance})}$ . (d.c. or a.c. r.m.s. Voltage)

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.

(For Jumpers the load current shall be derated according to the Derating 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 RAC102D, 104D 50Va.c.,60s RAC162D, 104D, 168D 100Va.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 Amount of bend : 3 mm			