

FIXED CHIP RESISTOR NETWORKS; RECTANGULAR TYPE RAC10, 16, 32

●Ratings

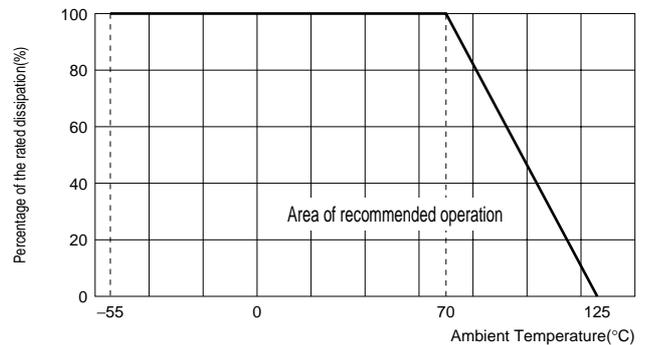
Style	Rated Dissipation at 70°C W	Rated Current of Jumper	Limiting Element Voltage V	Temperature Coefficient of Resistance 10 ⁻⁶ /°C	Rated Resistance Range	Tolerance on Rated Resistance	Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
RAC10	0.063/Element	1.0	25	±200	10 ohm~1M ohm	J(±5%)	E24 Series	50	-55~+125
RAC16			50					100	
RAC32	0.125/Element	2.0	200					400	

Note.1 Rated Voltage = $\sqrt{(\text{Rated Power}) \times (\text{Rated Resistance})}$ (d.c. or a.c. r.m.s. Voltage)

Note.2 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 at temperature in excess of 70°C shall be as indicated by the following Curve.
(The load current shall be derated according to Derating Curve in case of the Jumper)



●Climatic Category

55/125/56

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

●Performance Characteristics JIS C 5201-1 : 1998

Description	Requirements	Test Methods
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 RAC32 400Va.c.,60s RAC16 100Va.c.,60s RAC10 50Va.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, 1000h.
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, 1000h.
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 Amount of bend : 3mm