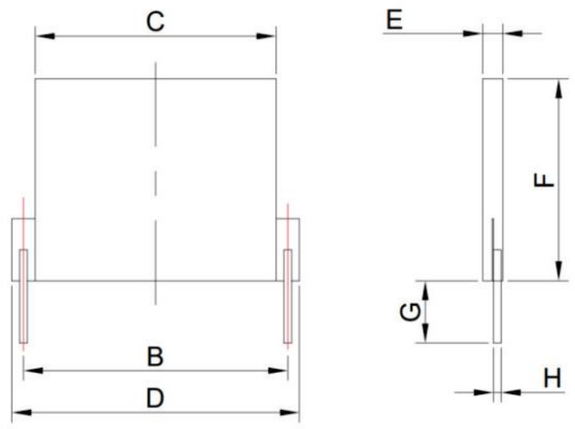
Series RGC

Power Type Precision Alloy Resistors

DOUBLE CIRCLE
双 环

■ Construction



■ Characteristics

- High Power and Good HeatLow TCR
- High Precision and Low TCR
- Extremely Low Noise and No inductance

■ Dimensions (mm)

Model	Dimensions(mm)						
	C	F	H	B	D	Emax	G
RGC2618	26.0±0.5	18.0±0.5	0.8±0.05	28.0±0.5	30.0±0.5	3.0	6.0±1.0
RGC3026	30.0±0.5	26.0±0.5	0.8±0.05	32.0±0.5	34.0±0.5	3.0	6.0±1.0
RGC2630	26.0±0.5	30.0±0.5	0.8±0.05	28.0±0.5	30.0±0.5	3.0	6.0±1.0
RGC4034	40.0±0.5	34.0±0.5	0.8±0.05	42.0±0.5	44.0±0.5	3.0	6.0±1.0

■ Technical Standard

GB/T5729-2003 Fixed resistors for use in electronic equipment--Part 1: Generic specification

Q/BDS054-2024 Resistors, Alloy Type RGC, Precision Power, Detail Specification for

■ Application Area

The RGC power type precision alloy resistor adopts alloy foil as the resistor material and has a non-inductive design. The product has high precision, low temperature coefficient and super pulse tolerance. The pin-type terminal and the ceramic substrate package on both sides make it have good heat dissipation performance. It is suitable for current sampling, shunt, overload protection and other aspects in the circuit.

■ Technical Specifications

Type	RGC2618	RGC2630	RGC3026	RGC4034
Rated Power at 70℃(W)	3	5	5	10
Max Working Voltage(V)	15	20	20	35
Overload Capacity(W)	150	200	200	400
Resistance Range(Ω)	0.01R~10R	0.01R~10R	0.01R~10R	0.01R~20R
Tolerance Range	1Ω < R≤10Ω :B (±0.1%) 0.01Ω≤R≤1Ω: C (±0.25%), D (±0.5%), F (±1.0%)			
TC-Range(10-6/K)	1Ω < R≤10Ω : C6(±10), C5(±15), C4(±20) 0.01Ω≤R≤1Ω: C3(±25), C2(±50), C1(±100)			

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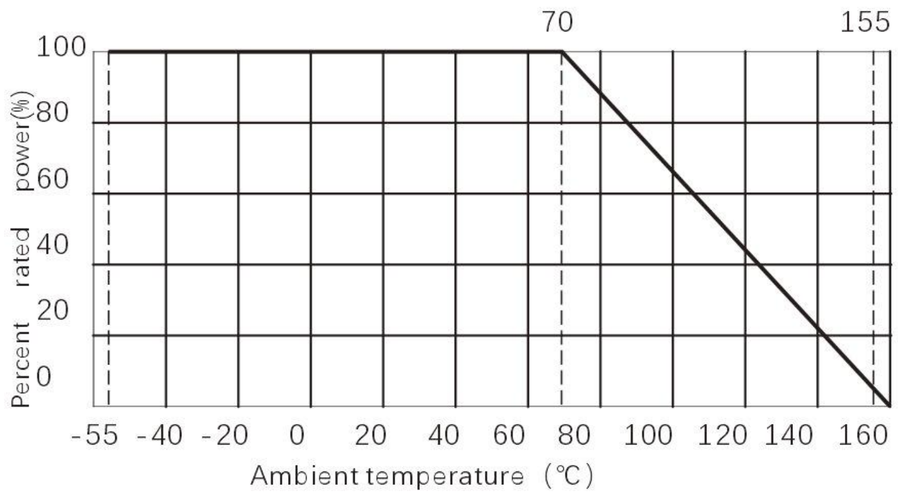
■ Derating Curve



■ Performance Characteristics

Test Items	Standards	Test Method
Short Time Overload	△R≤± (0.05%R+0.01Ω)	2.5 times of rated voltage, not more than 2 times of component limit voltage, lasting for 5S
Temperature Shock	△R≤±(0.05%R+0.01Ω)	-65 ℃ ~ 150 ℃, 5 cycles, 0.5h
Robustness of Terminations	△R≤± (0.05%R+0.01Ω)	Tension: 20 N, time: 10 s
Resistance to Solder	△R≤±(0.05%R+0.01Ω)	260℃±5℃,10±2S
Damp heat steady state test	△R≤±(0.10%R+0.01Ω)	40 ℃ ± 2 ℃, humidity 90% ~ 95%, 100h, 0.1 times Pe, 1.5 H on, 0.5 H off
Solderability	Lectrode area cover by solder≥95%	245℃±5℃， 3s±0.5s
70℃Load Life	△R≤±(0.10%R+0.01Ω)	70 ℃, Pe, 1.5 H on, 0.5 H off, 1000 H
Shock	△R≤±(0.05%R+0.01Ω)	Acceleration: 50G Pulse duration: 11ms Pulse waveform: half sine wave impact times: 18 times
Vibration	△R≤±(0.05%R+0.01Ω)	Frequency range: 10Hz ~ 500Hz, amplitude: 0.75mm orAcceleration 98m/S2 (whichever is smaller) Time: 6 H (2 H in 3 directions)

■ Examples for purchase

RGC3026-5W	10R	C	C5
↓	↓	↓	↓
Model & specification	Resistance value	Precision	Temperature coefficient

Packaging:Pallet in plastic bags(MOQ:100pcs)

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