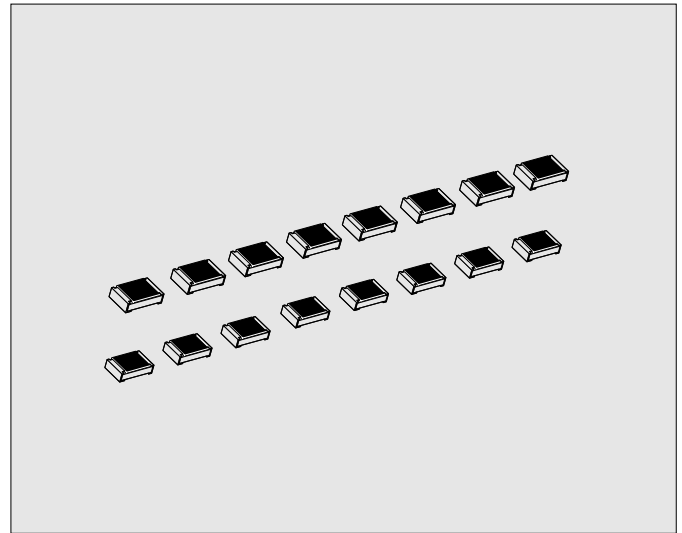


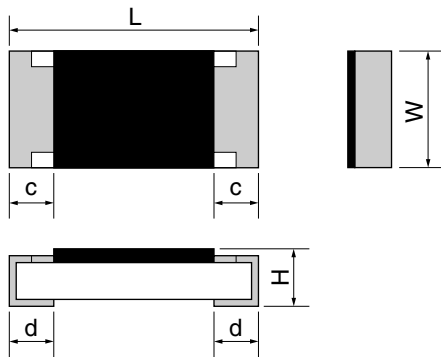
# RHC

## ●Features

1. Max. resistance value : 150G ohm.
2. Halogen\*1 and Antimony\*2 free product
  - \*1 Cl or Br ≤ 900ppm, Cl+Br ≤ 1500ppm
  - \*2 Sb<sub>2</sub>O<sub>3</sub> ≤ 900ppm
3. Suitable for compact instrumentation, infrared rays, sensors, etc.



## ●Dimensions



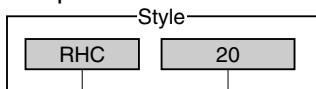
Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RHC16	1608	0603	1.6±0.1	0.8 <sup>+0.15</sup> <sub>-0.05</sub>	0.45±0.10	0.3±0.1	0.3±0.1	2mg
RHC20	2012	0805	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4±0.2	5mg

Unit : mm

\*Values for reference

## ●Part Number Description

Example



Size		
Code	Metric	Inch
16	1608	0603
20	2012	0805

75G0

Rated Resistance
e.g.: 100M=100M ohm
1G00=1G ohm
10G0=10G ohm
100G=100G ohm

M

Tolerance on Rated Resistance	
J	± 5%
K	±10%
M	±20%
N	±30%
H	±50%

TP

* Packaging & Standard Qty. (Min.)		
B	Bulk (Loose Package)	1,000pcs.
TP	Paper Tape	5,000pcs.

\*Refer to Tape and Packaging information on pages 54 and 55.

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE & HIGH OHM

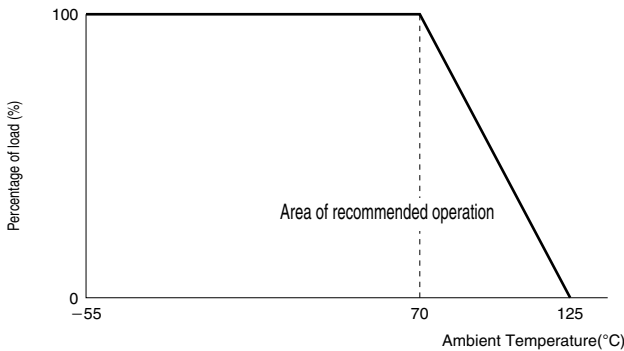
RHC

●Ratings

Style	Size Metric (Inch)	Rated Voltage V	Rated Resistance Range	Tolerance on Rated Resistance	Temperature Coefficient of Resistance 10 <sup>-6</sup> /°C	Preferred Number series for resistors	Isolation Voltage V	Category Temperature Range °C
RHC16	1608 (0603)	15	100MΩ ~ 270MΩ	J (± 5%)	0~-2,000	E12	100	-55~+125
			100MΩ ~ 1GΩ	K (±10%)				
			100MΩ ~ 150GΩ	M (±20%) N (±30%) H (±50%)				
RHC20	2012 (0805)		100MΩ ~ 1GΩ	J (± 5%) K (±10%)	±2,000			
			100MΩ ~ 10GΩ	M (±20%) N (±30%) H (±50%)	±4,000			
			100GΩ ~ 150GΩ					

●Derating Curve

The derated values of load for temperatures in excess of 70°C shall be indicated by the following Curve.



●Performance Characteristics

Description	Requirements		Test Method JIS C5202-1990	
	RHC16	RHC20		
Resistance	Within specified tolerance		5.1 clause	Measuring voltage: 15V
Temperature characteristic of resistance	See Rating Table		5.2 clause	Measuring temperature: 5°C/35°C
Voltage coefficient	100M ohm≤R<100G ohm : within ±1%/V 100G ohm≤R≤150G ohm : within ±2%/V	100M ohm≤R≤10G ohm : within 0~-2%/V 100G ohm≤R≤150G ohm : within ±10%/V	5.3 clause	Measuring voltage: 5V/15V
Insulation resistance	At least 10T ohm		5.6 clause	100Vd.c., 60s
Solderability	At least 95% of the terminal surface must be covered by new solder		6.11 clause	Dip into 235°C solder bath for 2s.
Resistance to soldering heat	100M ohm≤R≤10G ohm : within ±1% 10G ohm<R≤150G ohm : within ±2% No major visible damage	100M ohm≤R≤10G ohm : within ±1% 100G ohm≤R≤150G ohm : within ±5%	6.10 clause	Dip into 260°C solder bath for 10s.
Rapid change of temperature	100M ohm≤R≤10G ohm : within ±1% 10G ohm<R≤150G ohm : within ±2% No major visible damage	100M ohm≤R≤10G ohm : within ±1% 100G ohm≤R≤150G ohm : within ±5%	7.4 clause	Cycle between -55°C and +125°C for 5 cycles.
Moisture resistance property (steady state)	100M ohm≤R≤10G ohm : within ±2% 10G ohm<R≤150G ohm : within ±5% No major visible damage	100M ohm≤R≤10G ohm : within ±2% 100G ohm≤R≤150G ohm : within ±5%	7.5 clause	40°C, 90~95%R.H., 1,000h.
Endurance at 70°C (rated load)	100M ohm≤R≤10G ohm : within ±3% 10G ohm<R≤150G ohm : within ±5% No major visible damage	100M ohm≤R≤10G ohm : within ±3% 100G ohm≤R≤150G ohm : within ±20%	7.10 clause	Rated voltage, 1.5 h "ON", 0.5h "OFF", 70°C, 1,000h.
Capacity	1.0pF or less		Measuring voltage: 1V, Measuring frequency: 10k, 100k, 1MHz.	