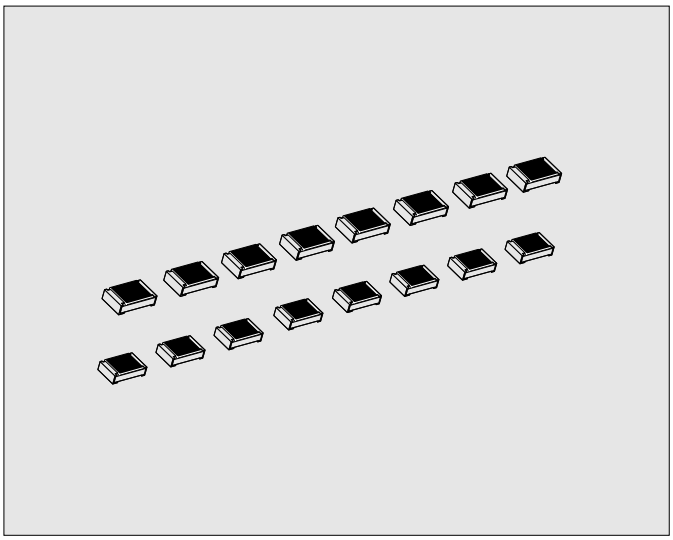
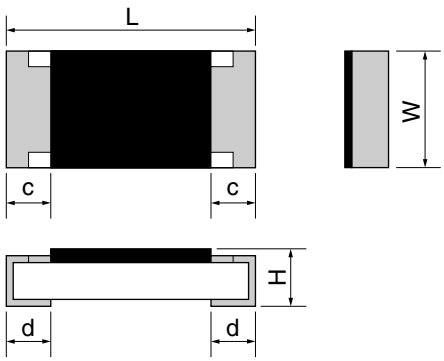
RHC

●Features

1. Max. resistance value : 150G ohm.
2. Suitable for compact instrumentation, infrared rays, sensors, etc.



●Dimensions



Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RHC16	**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
RHC20	**2012**	**0805**	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4±0.2	5mg

*Values for reference

●Part Number Description

Example

Style

RHC	20	75G0	M	TP
Product Type	Size	Rated Resistance	Tolerance on Rated Resistance	* Packaging & Standard Qty. (Min.)

Code	Metric	Inch
16	1608	0603
20	2012	0805

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

J	± 5%
K	±10%
M	±20%
N	±30%
H	±50%

B	Bulk (Loose Package)	1,000pcs.
TP	Paper Tape	5,000pcs.

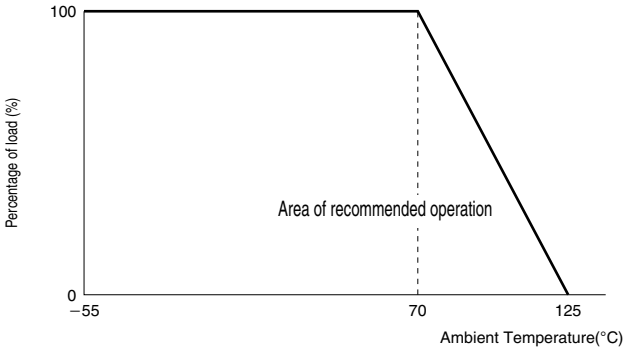
*Refer to Tape and Packaging information on pages 48 and 49.

●Ratings

Style	Size Metric (Inch)	Rated Voltage V	Rated Resistance Range	Tolerance on Rated Resistance	Temperature Coefficient of Resistance 10^{-6}/°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%)				
			100GΩ ～ 150GΩ	H (±50%)	±4,000			

●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
Resistance	RHC16	RHC20	5.1 clause Measuring voltage: 15V
	Within specified tolerance		
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.