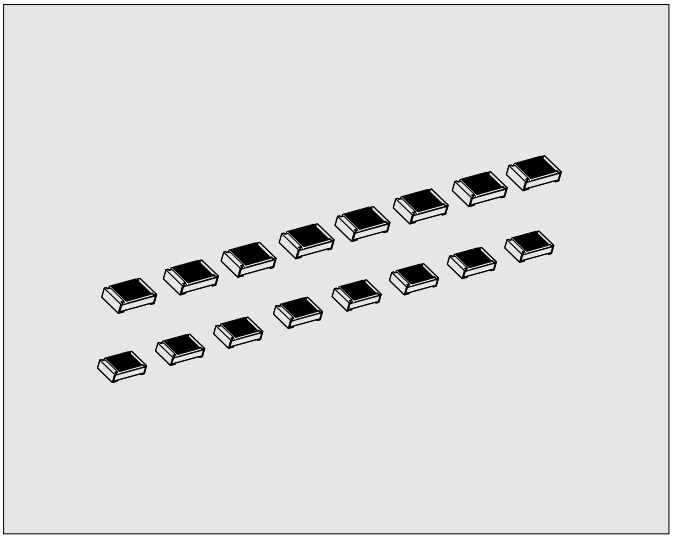
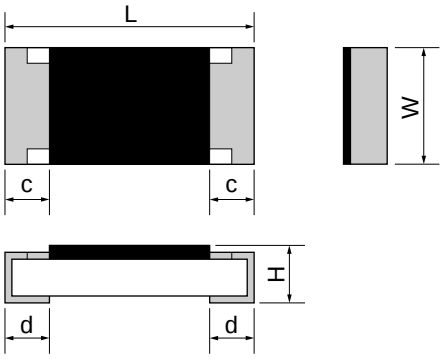
RHC16, 20

●Features

1. Available 0603, 0805 sizes.
2. Max. resistance value 150G ohm.
3. Designed for use in 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

●Product Classification

Example

RHC	20	75G0	M	TP
①Product Type	②Size	③Rated Resistance	④Tolerance on Rated Resistance	⑤Packaging

Style

①Product Type

③Rated Resistance	
e.g: 100M=100M ohm 1G00=1G ohm 10G0=10G ohm	4Digit

②Size		
Code	Size	
	Metric	Inch
16	1608	0603
20	2012	2010

④Tolerance on Rated Resistance	
Code	Tolerance on Rated Resistance
J	±5%
K	±10%
M	±20%
N	±30%
H	±50%

*⑤Packaging	
Code	Packaging
B	Bulk(Loose Packaging)
TP	Paper Tape.

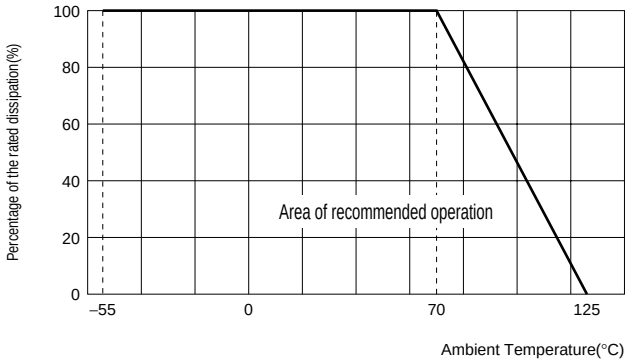
*Refer to Taping and Packaging information in page 34.35

●Ratings

Style	Maximum Working Voltage V	Temperature Coefficient of Resistance 10^{-6}/°C	Rated Resistance Range	Tolerance on Rated Resistance	Isolation Voltage V	Category Temperature Range °C
RHC16	15	0~–2,000	100M ohm≤R≤300M ohm	J(± 5%)	100	–55~+125
			100M ohm≤R≤1G ohm	K(± 10%)		
			100M ohm≤R≤150G ohm	M(± 20%) N(±30%) H(±50%)		
RHC20		±2,000	100M ohm≤R≤1G ohm	J(± 5%) K(±10%)		
			100M ohm≤R≤10G ohm	M(±20%) N(±30%) H(±50%)		
		±4,000	100G ohm≤R≤150G ohm			

●Derating Curve

The derated values of dissipation at temperature in excess of 70°C shall be as indicated by the following Curve.



●Performance Characteristic

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 10%/V 100G ohm≤R≤150G ohm : within±2.0%/V	100M ohm≤R≤10G ohm : within 0~–2.0%/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
Resistance to soldering heat	100M ohm≤R≤10G ohm : within 1.0% 10G ohm<R≤150G ohm : within±2.0% No major visible damage	100M ohm≤R≤10G ohm : within ±1.0% 100G ohm≤R≤150G ohm : within±10.0%	6.10 clause Dip into 260°C solder bath for 10s
Rapid change of temperature	100M ohm≤R≤10G ohm : within 1.0% 10G ohm<R≤150G ohm : within±2.0% No major visible damage	100M ohm≤R≤10G ohm : within 1.0% 100G ohm≤R≤150G ohm : within±10.0%	7.4 clause Cycle between –55°C and +125°C for 5 cycles
Moisture Resistance Property (steady state)	100M ohm≤R≤10G ohm : within±2.0% 10G ohm<R≤150G ohm : within±5.0% No major visible damage	100M ohm≤R≤10G ohm : within±2.0% 100G ohm≤R≤150G ohm : within±10.0%	7.5 clause 40°C 90~95%R.H. 1000h
Endurance at 70°C (rated load)	100M ohm≤R≤10G ohm : within±30% 10G ohm<R≤150G ohm : within±5.0% No major visible damage	100M ohm≤R<10G ohm : within±3.0% 100G ohm≤R≤150G ohm : within±20.0%	7.10 clause Rated voltage 1.5 h "ON" 0.5h "OFF" 70°C. 1000h
Capacity	1.0pF or less		Measuring voltage: 1V Measuring frequency: 10k, 100k, 1MHz.