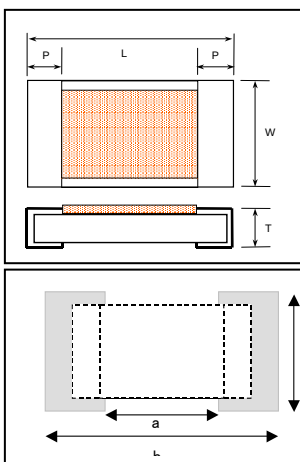


Ultra precision 0.02%, 0.05%, 0.1%, 0.25%, 0.5%, tolerance Thin Film Chip Resistor

Performance

Item	Test Method	Specification: drift limits for each power rating						(Typical)
		Low		Regular		High		
		≤47Ω	≥47Ω	≤47Ω	≥47Ω	≤47Ω	≥47Ω	
Short time Overload	Applied voltage : 2.5 times. Test duration: 5 seconds. (When maximum operating voltage: 2 times or less)	±0.10%	±0.05%	±0.10%	±0.05%	—	±0.10%	±(0.01%)
Load Life	Test temperature : 85℃ (When high voltage : 70℃). Applied voltage : rated voltage. Repeat 1000 hours as follow : 90 mins on/30mins off.	±0.25%	±0.10%	±0.50%	±0.25%	—	±0.50%	±(0.01%)
Moisture load life	Test condition: 85℃, 85% RH. Applied power : 1/10 rated power. Repeat 1000 hours as follow : 90 mins on/30mins off.	±0.25%	±0.10%	±0.50%	±0.25%	—	±0.50%	±(0.05%)
Temperature Cycle	Repeat 1000 cycle as follow : —55℃ (30 min.)/Room Temp.(2 min.) / +125℃ (30min.)/Room Temp.(2min.)	±0.25%	±0.10%	±0.25%	±0.10%	—	±0.10%	±(0.01%)
High temperature Exposure	+155℃ for 1000 hours with no load	±0.25%	±0.10%	±0.25%	±0.10%	—	±0.10%	±(0.01%)

Dimensions & Footprints

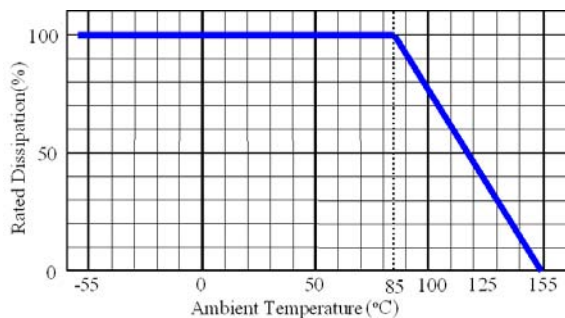


	Dimensions inch (mm)				
	L	W	P	T	
RG 1005	.040 ± .002 (1.0 ± 0.05)	.020 ± .002 (0.5 ± 0.05)	.008 ± .004 (0.2 ± 0.1)	.014 ± .002 (0.35 ± 0.05)	
RG 1608	.063 ± .008 (1.6 ± 0.2)	.031 ± .008 (0.8 ± 0.2)	.012 ± .008 (0.3 ± 0.2)	.016 ± .004 (0.4 ± 0.1)	
RG 2012	.079 ± .008 (2.0 ± 0.2)	.049 ± .008 (1.25 ± 0.2)	.016 ± .008 (0.4 ± 0.2)	.016 ± .004 (0.4 ± 0.1)	
RG 3216	.126 ± .008 (3.2 ± 0.2)	.063 ± .008 (1.6 ± 0.2)	.02 ± .01 (0.5 ± 0.25)	.016 ± .004 (0.4 ± 0.1)	

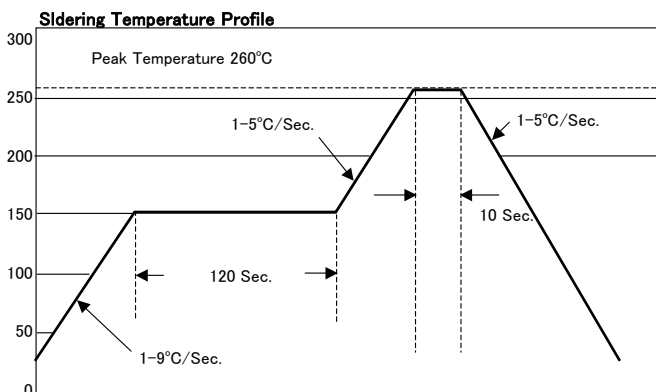
	Dimensions (mm)		
	a	b	c
RG 1005	0.5	1.6	0.6
RG 1608	1.0	3.0	1.2
RG 2012	1.2	4.0	1.7
RG 3216	2.0	5.0	2.0

Power Derating Curve

For operation above 85degC, power rating must be derated according to the following chart



Recommended Reflow Curve



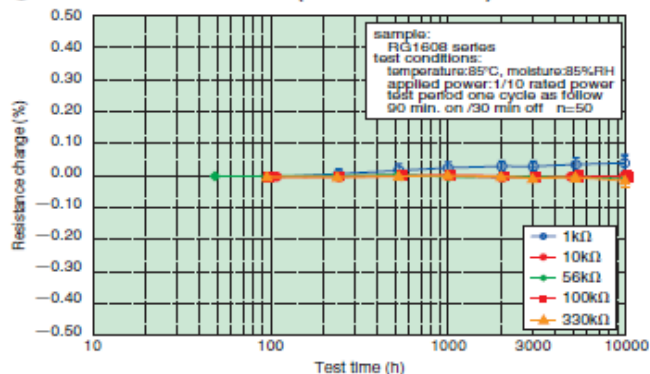
Ordering information

RG	1608	N	-	104	-	W	-	T5
TYPE	Size	TCR		R-Values		Tolerance		Package
	1005 1608 2012 3216	V=5ppm/°C N=10ppm/°C P=25ppm/°C Q=50ppm/°C R=100ppm/°C		3 digits for E24 series (Ex.104=100K ohm) 4 digits for E96 series (Ex.4992=49.9K ohm)		P=0.02% W=0.05% B=0.1% C=0.25% D=0.5%		T1=1000 T5=5000

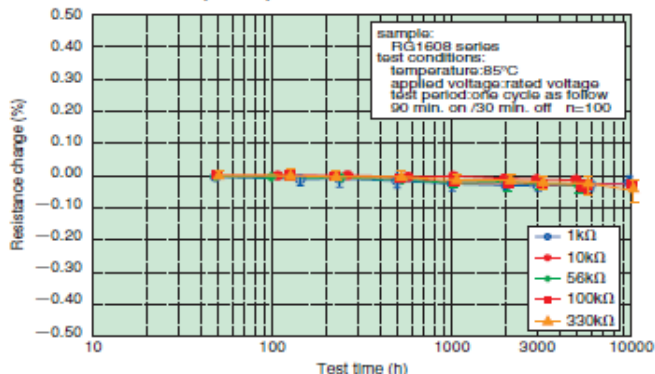
Ultra precision 0.02%, 0.05%, 0.1%, 0.25%, 0.5%, tolerance
Thin Film Chip Resistor

Reliability Test Data

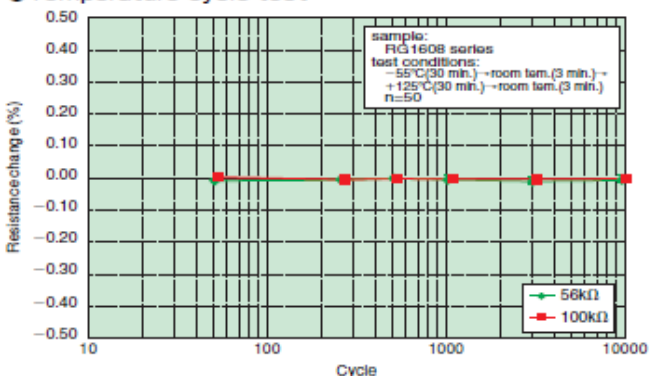
● Moisture and life test (THB 85°C 85%)



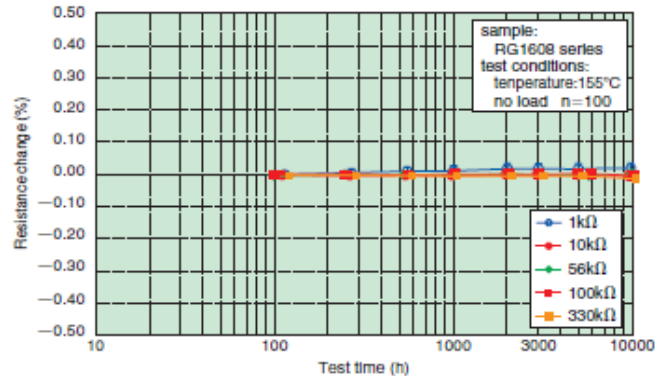
● Load life test (85°C)



● Temperature cycle test



● High temperature expose test (155°C)



Tape & Reel Dimensions (mm)

Type	A	B	E	F	W	P ₀	P ₁	P ₂	t ₁
RG1005	0.63 ± 0.05	1.13 ± 0.05	1.75 ± 0.1	3.5 ± 0.05	8.0 ± 0.3	4.0 ± 0.1	2.0 ± 0.05	2.0 ± 0.05	0.43 ± 0.05
RG1608	1.1 ± 0.1	1.9 ± 0.1					4.0 ± 0.1		0.6 ± 0.05
RG2012	1.65 ± 0.2	2.4 ± 0.2							0.75 ± 0.05
RG3216	1.9 ± 0.1	3.5 ± 0.1							1.0 ± 0.2

