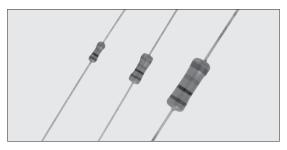


RK RK1/2GCoat Insulated Glazed Metal Film Fixed Resistors Discharge Path Resistors



Coating color: Light gray Marking: Color code

Features

- • Respondable to resistance tolerance $\pm 1\%$ and T.C.R. $\pm 100 \times 10^{-6} / K.$
- Resistors up to high resistance range in small sizes are available.
- Highly stable against environmental conditions and overload.
- Products meet EU-RoHS requirement. EU-RoHS regulation is not intended for Pb-glass contained in resistor element.

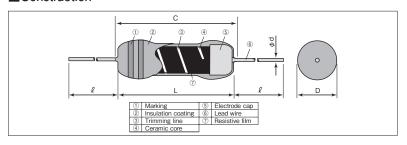
Approval Awarded

UL1676 c-UL (CSA-C22.2 No.1-M94) (File No.E159326) Recognized.
 Products Discharge Path Resistors RK 1/2GC

Reference Standards

• EIAJ RC-2128

■Construction



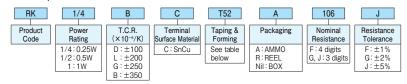
■Dimensions

Type	Dimensions (mm)							
Type	L	C Max.	D	d(Nominal)	L ^{®2}	(1000pcs)		
RK 1/4	6.3±0.5	7.1	2.3±0.3	0.6	24 Min.	250		
RK 1/2	9.5±1.0	11.1	3.5±0.4	0.6	24 WIII I.	380		
RK 1	15.5±1.0	18.3	5.5±0.5	0.8	38±3	1340		
RK 1/2G*1	9.5±1.0	11.1	3.5±0.4	0.6	24 Min.	380		

- **%1** Discharge path resistor
- *2 Lead length changes depending on taping and forming type.

■Type Designation

Example



Contact us when you have control request for environmental hazardous material other than the substance specified by FIL-RoHS

For further information on taping and forming, please refer to APPENDIX C on the back pages.

■Taping & Forming Matrix

Tyme Axial Taping			U Forming	L Fo	rming	M Forming					
Type	T26	T52	T521	U	L10A	L20A	M10		M12.5	M15	
RK1/4□C	0	0	_	0	0	_	M10F	M10R	M12.5R	_	_
RK1/2□C	_	0	_	_	_	_	_	_	M12.5F	M15F	M15R
RK1□C	_	_	0	_	_	0	_	_	_	_	-
RK1/2GC	_	0	_	_	_	_	_	_	M12.5F	M15F	M15R

☐ :T.C.R.

■Ratings

– Power		T.C.R.	Resistance Range (Ω)			Max.	Max.	Dielectric	Taping & Q'ty/AMMO		
Type	Rating	(×10 ⁻⁶ /K)	F:±1%	G:±2%	J:±5%	Working	Overload	Withstanding		(pcs)	
	Halling	(×10 /10)	E24 · E96	E24	E24	Voltage	Voltage	Voltage	T26A	T52A	T521A
RK1/4DC		D:±100	3.09M~25M	_	_						_
RK1/4LC	0.25W	L:±200	_	3.3M~33M	3.3M~33M	500V	700V	500V	2,000		_
RK1/4BC	1	B:±350	100k~25M	100k~33M	100k~33M					2.000	_
RK1/2DC		D:±100	5.11M~33M	_	_				_	2,000	_
RK1/2LC	0.5W	L:±200	_	6.2M~33M	6.2M~33M	700V	1000V	700V	_		_
RK1/2BC		B:±350	100k~35M	100k~51M	100k~51M				-		_
RK1BC	1W	B:±350	100k~51M	100k~100M	100k~100M	1000V	1500V	1000V	_	_	500
RK1/2GC ^{®3}	0.5W	G:±250	_	_	1M~12M	350V	700V	700V	_	2,000	_

※3 Discharge path resistor

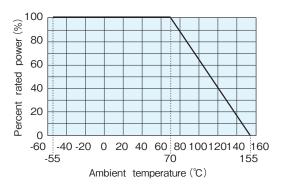
Rated Ambient Temperature :+70°C

Operating Temperature Range :-55°C∼+155°C

 $Rated\ voltage = \sqrt{Power\ Rating \times Resistance\ value}\ or\ Max.\ working\ voltage,\ whichever\ is\ lower.$



■Derating Curve



For resistors operated at an ambient temperature of $70^\circ\!\mathbb{C}$ or higher, the power shall be derated in accordance with the above derating curve.

■Performance

Test Items	Performance Requirements $\Delta R \pm (\% + 0.05 \Omega)$		Test Methods				
	Limit	Typical					
Resistance	Within specified tolerance	_	25°C				
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C				
Overload (Short time)	1 : RK 2.5 : RK1/2G	0.6 : RK 1 : RK1/2G	Rated voltage × 2.5 or Max. overload vol., whichever is lower, for 5s				
Resistance to soldering heat	1 : RK 5 : RK1/2G	0.5 : RK 1 : RK1/2G	260°C±5°C, 10s±1s or 350°C±10°C, 3.5s±0.5s				
Dielectric withstanding voltage	No breakdown	_	1 min.				
Insulation resistance	Not less than 10,000MΩ	_	100V, 1 min.				
Rapid change of temperature	1 : RK 5 : RK1/2G	0.5 : RK 1 : RK1/2G	-55°C (30min.) /+155°C (30min.) 5 cycles				
Moisture resistance	5 : RK 10 : RK1/2G	2 : RK 5 : RK1/2G	40℃±2℃, 90%~95%RH, 1000h 1.5h ON / 0.5h OFF cycle				
Endurance at 70°C	5 : RK 10 : RK1/2G	2 : RK 5 : RK1/2G	70°C±2°C, 1000h 1.5h ON ∕ 0.5h OFF				
Resistance to solvent	No abnormality in appearance. Marking shall be easily legible.	_	The resistor shall be immersed for 5s in IPA.				
Impulse	No such abnormalities as short-circuit, burnout, breakdown, etc.	_	Discharge from 1000pF capacitor 50 pulses. Interval 2.5s Charge voltage: 1.25kV (RK1/4), 2.5kV (RK1/2) and 6kV (RK1).				