

RK73G-RT

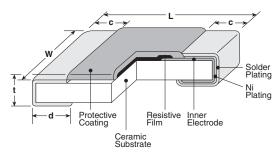
flat chip resistor (ultra precision grade, anti-sulfuration)



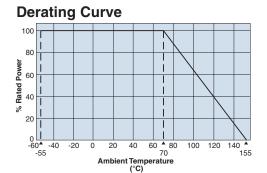
features

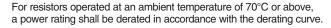
- Excellent anti-sulfuration characteristic due COMPLIANT to using high sulfuration-proof inner top electrode material
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. ±50x10⁻⁶/K and tolerace ±0.25%
- Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified

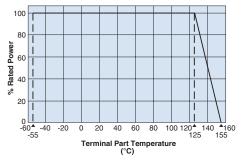
dimensions and construction



туре	Dimensions inches (mm)						
(Inch Size Code)		W	С	d	t		
1E (0402)	.039 +.004 002 (1.0 +0.1 -0.05)	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 ^{+.002} ₀₀₄ (0.25 ^{+0.05} _{-0.1})	.014±.002 (0.35±0.05)		
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
2A (0805)			.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)		
2B .126±.008 (3.2±0.2)		.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 +.008 004 (0.4 +0.2)	.024±.004 (0.6±0.1)		

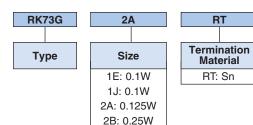






For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

ordering information



Pack	aging
TPL: 0402 only: 2mm pitch	punched paper
TPD: 0402 only: 10" plastic	embossed
TP: 0402, 0603: 7" 2mm pit	ch punched paper
TD: 0603, 0805, 1206: 7" 4r	nm pitch punched paper
TDD: 0603, 0805, 1206: 10'	' paper tape
TE: 0805, 1206: 7" plastic e	mbossed
TED: 0603, 0805, 1206: 10"	embossed plastic
For further information on papers please refer to Appendix A	ackaging,

1002	
Nominal Resistance	
3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω	

ן ט				
Tolerance				
C: ±0.25%	1			
D: ±0.5%				
F: ±1%				

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

11/03/17





flat chip resistor (ultra precision grade, anti-sulfuration)

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10°/K)			nge E-24, E-96 (F±1%)	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
RK73G1E (0402)	1/10W (.10W)				_	30Ω - 1ΜΩ	30Ω - 1ΜΩ	50V	100V	-55°C to +155°C
RK73G1J (0603)	1/10W (.10W)	7000	10500	50	100Ω - 1MΩ			75V	150V	
RK73G2A (0805)	1/8W (.125W)	+70°C	+125°C	±50				150V	200V	
RK73G2B (1206)	1/4W (.25W)							200V	400V	

Rated voltage = $\sqrt{\text{Power rating x resistance value or max.}}$ working voltage, whichever is lower

If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves in the terminal part temperature" in the beginning of the catalog.

environmental applications

Performance Characteristics

	Requirement Δ R ±(%+0.1Ω)				
Parameter	Limit	Typical	Test Method		
Resistance	Within specified tolerance	_	25°C		
T.C.R.	Within specified T.C.R.		+25°C/-55°C and +25°C/+125°C		
Overload (Short time)	±2%	±0.6%	Rated Voltage x 2.5 for 5 seconds (1E, 2B: Rated Voltage x 2 for 5 seconds)		
Resistance to Solder Heat	±1%	±0.4%	260°C ± 5°C, 10 seconds ± 1 second		
Rapid Change of Temperature	±0.5%	±0.3%	-55°C (30 minutes), +125°C (30 minutes), 100 cycles		
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: 1E	±0.6%: 1J, 2A, 2B; ±1%: 1E	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
Endurance at 70°C	±2%: 1J, 2A, 2B ±3%: 1E	±0.6%: 1J, 2A, 2B; ±1%: 1E	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
High Temperature Exposure	±1%	±0.6%	+155°C, 1000 hours		
Sulfuration Test	±5%	±0.2%	Soaked in industrial oil with sulfur substance 3.5% contained 105°C ± 3°C, 500 hours		

For Surface Temperature Rise Graph see Environmental Applications. Additional environmental applications can also be found at www.koaspeer.com

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

10/25/18