

RK73G-RT

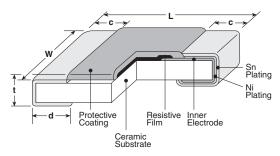
flat chip resistor (ultra precision grade, anti-sulfuration)



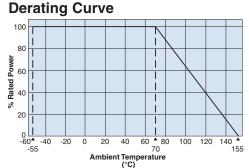
features

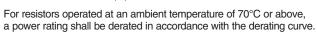
- Excellent anti-sulfuration characteristic due COMPLIANT to using high sulfuration-proof inner top electrode material
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. ±50x10⁻⁶/K and tolerace ±0.25%
- Suitable for both flow and reflow solderings
- Products 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 Tested

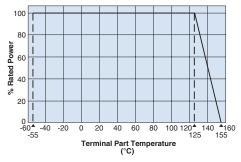
dimensions and construction



Type	Dimensions inches (mm)								
(Inch Size Code)	L	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)	.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)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 +.008004 (0.3 +0.2)	.02±.004 (0.5±0.1)				
		.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 ^{+.008} ₀₀₄ (0.4 ^{+0.2} _{-0.1})	.024±.004 (0.6±0.1)				

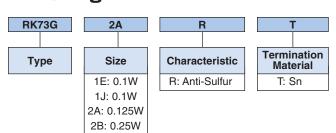






For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

ordering information



טו	
Packaging	
TPL: 0402 only: 2mm pitch punched paper	
TP: 0402, 0603: 7" 2mm pitch punched paper	
TD: 0603, 0805, 1206: 7" 4mm pitch punched paper	
TE: 0805, 1206: 7" 4mm plastic embossed	

For further information on packaging, please refer to Appendix A

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

1002

D					
Tolerance					
C: ±0.25%					
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.

10/22/21





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)		+125°C	±50	_	30Ω - 1ΜΩ	30Ω - 1MΩ -	50V	100V	-55°C to +155°C
RK73G1J (0603)	1/10W (.10W)	7000			100Ω - 1MΩ			75V	150V	
RK73G2A (0805)	1/8W (.125W)	+70°C						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 $105^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 500 hours		

Please refer to conventional products for characteristic data such as temperature rise.

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.

11/06/19