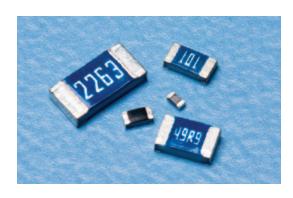


thick film 0.25%, 0.5%, 1% tolerance, 50ppm/°C chip resistor

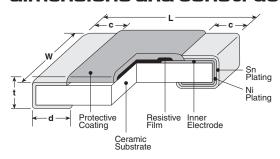




features

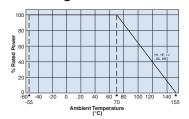
- · High precision resistor with T.C.R. of ±50 ppm/°C and tolerance of ±0.25%, ±0.5% or ±1%
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

dimensions and construction

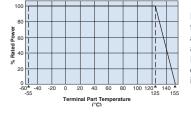


Туре	Dimensions inches (mm)						
(Inch Size Code)	L	W	С	d	t		
1H (0201)	.024±.001 (0.6±0.03)	.012±.001 (0.3±0.03)	.004±.002 (0.1±0.05)	.006±.002 (0.15±0.05)	.009±.001 (0.23±0.03)		
1E (0402)	.039 +.004002	.02±.002	.008±.004 (0.2±0.1)	.01 +.002 004 (0.25 +0.05)	.014±.002 (0.35±0.05)		
1E AT (0402)	$(1.0^{+0.1}_{-0.05})$	(0.5±0.05)	.01±.004 (0.25±0.1)	.012±.006 (0.3±0.15)			
1J (0603)	.063±.008	.031±.004	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004		
1J AT (0603)	(1.6±0.2)	(0.8±0.1)	.014±.006 (0.35±0.15)	.02±.008 (0.5±0.2)	(0.45±0.1)		
2A (0805)	.079±.008	.049±.004	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)		
2A AT (0805)	(2.0±0.2)	(1.25±0.1)	.018±.010 (0.45±0.25)	.024±.008 (0.6±0.2)	.022±.004 (0.55±0.1)		
2B (1206)	.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)		
2B AT (1206)	(3.2±0.2)	(1.0±0.2)	.022±.014 (0.55±0.35)	.031±.008 (0.8±0.2)	(0.0±0.1)		

Derating Curve

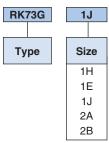


For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the above 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



Characteristic Nil: Standard New A: Heat shock resistance *1 Termination Material T: Sn (L:Sn/Pb*2)

TD **Packaging** TCM: 2mm pitch press paper

TPL - TP: 2mm pitch punch paper TD: 4mm pitch punch paper TE: 4mm pitch plastic embossed

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

1003

Tolerance C: ±0.25% D: ±0.5% F: ±1%

For further information on packaging, please refer to Appendix A

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

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^{*1} With type A, only T is available as the terminal surface material.

^{*2} With type 1H, only T is available as the terminal surface material.

The terminal surface material lead free is standard.





thick film 0.25%, 0.5%, 1% tolerance, 50ppm/°C chip resistor

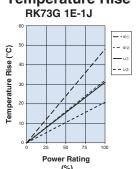
applications and ratings

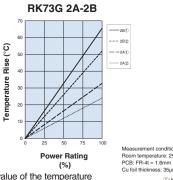
Part	Power	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range New			Absolute Maximum	Absolute Maximum
Designation*	Rating				E-24, E-96 (C±0.25%)	E-24, E-96 (D±0.5%)	E-24, E-96 (F±1%)	Working Voltage	Overload Voltage
RK73G1H (0201)	1/20W (.05W)		125°C	±50	_	100Ω - 1ΜΩ**	100Ω - 1ΜΩ**	25V	50V
RK73G1E (0402)	1/10W (.10W)	70°C _{125°} C			100Ω - 1ΜΩ	10Ω - 1ΜΩ	10Ω - 1ΜΩ	50V	100V
RK73G1J (0603)	1/10W (.10W)							75V	150V
RK73G2A (0805)	1/8W (.125W)							150V	200V
RK73G2B (1206)	1/4W (.25W)						200V	400V	

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

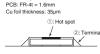
environmental applications

Temperature Rise

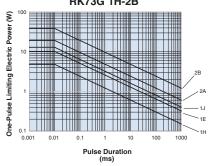




Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.



One-Pulse Limiting Electric Power



The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

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.	_	1H: +25°C/+125°C, 1E, 1J, 2A, 2B: +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%	±1%: 1H, ±0.4%: 1E, 1J, 2A, 2B	260°C ± 5°C, 10 seconds ± 1 second	
Rapid Change of Temperature	±0.5%: Characteristic (Nil) Standard 1%: Characteristic (A) Heat Shock Resistance	±0.3%: Characteristic (Nil) Standard 0.5%: Characteristic (A) Heat Shock Resistance	Characteristic (Nil) Standard -55°C (30 minutes), +125°C (30 minutes), 100 cycles Characteristic (A) Heat Shock Resistance -55°C (30 minutes), +125°C (30 minutes), 1000 cycles	
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: 1H, 1E	±0.6%: 1J, 2A, 2B; ±1%: 1H, 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%: 1H, 1E	±0.6%: 1J, 2A, 2B; ±1%: 1H, 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	

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.

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^{*} Parentheses indicate EIA package size codes. ** RK73G1H available in E-24 decade values only