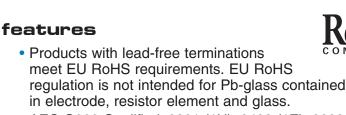
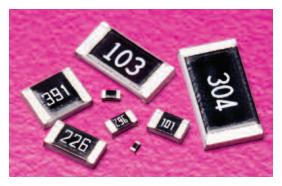




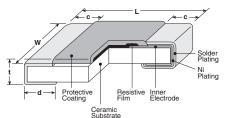
general purpose 2%, 5% tolerance thick film chip resistor

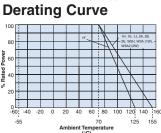


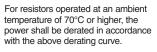


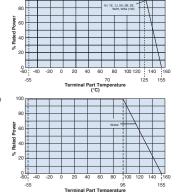
AEC-Q200 Qualified: 0201 (1H), 0402 (1E), 0603 (1J), 0805 (2A), 1206 (2B), 1210 (2E), 2010 (2H/W2H), 2512 (3A/W3A/W3A2)

dimensions and construction









When the terminal part temperature of the resistor exceeds the rated terminal part temperature shown above, the power shall be derated according to the derating curve. Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use

Type*	Dimensions inches (mm)					
(Inch Size Code)	L	W	С	d	t	
1F (01005)	.015±.001 (0.4±0.02)	.007±.001 (0.2±0.02)	.004±.001 (0.10±0.03)	.004±.001 (0.11±0.03)	.005±.001 (0.13±0.02)	
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 +.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 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)	
2B (1206)	.126±.008	.063±.008 (1.6±0.2)				
2E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)		.016 +.008 004 (0.4 +0.2)		
2H (2010)	.197±.008	.098±.008		-0.1		
W2H (2010)	(5.0±0.2)	(2.5±0.2)	.02±.012 (0.5±0.3)	.026±.006 (0.65±0.15)	.024±.004 (0.6±0.1)	
3A (2512)	.248±.008	.122±.008		.016 +.008 004 (0.4 +0.2)		
W3A/W3A2 (2512)	(6.3±0.2)	(3.1±0.2)		.026±.006 (0.65±0.15)		

^{*} Parentheses indicate EIA package size codes.

ordering information

	_			
RK73B	2B	Т		
Туре	Size	Termination Material		
	1F 1H 1E 1J 2A 2B 2E W2H W3A 2H	T: Sn (1F ~ W3A2) Contact factory for below options: L: SnPb (1E, 1J, 2A, 2B, 2E, 2H, 3A) G: Au (1E ~ 2A: 10Ω ~ 10Ω		

3A W3A2

TD
Packaging
TX: 01005 only: 4mm width - 1mm pitch plastic embossed
TBL: 01005 only: 2mm pitch pressed paper
TC: 0201 only: 7" 2mm pitch pressed paper
(TC: 10,000 pcs/reel, TCM: 15,000 pcs/reel)
TPL: 0402 only: 2mm pitch punched paper
TP: 0402, 0603 & 0805: 7" 2mm pitch punched paper
TD: 0603, 0805, 1206 &1210: 7" 4mm pitch punched paper
TE: 0805, 1206, 1210, 2010 & 2512: 7" plastic embossed
For further information on packaging, please refer to Appendix A

102		
	ominal sistance	
	nificant es + 1 plier	
decir	ndicates nal on s <10Ω	

J
Tolerance
G:±2%
J: ±5%

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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general purpose 2%, 5% tolerance thick film chip resistor

applications and ratings

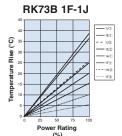
Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part	T.C.R. (x10 ⁻⁶ /K)	G±2%	ce Range J±5%	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range	
		romp.	Temp.		E-24	E-24	vollago	vollago	rungo	
				±200	100kΩ - 1MΩ	100kΩ - 10MΩ			-55°C to	
RK73B1F (01005)	0.03W	0.03W	1 F (01005) 0.03W		_	±250	10Ω - 91kΩ	10Ω - 91kΩ	20V 30V	+125°C
				0~+300	1Ω - 9.1Ω	1Ω - 9.1Ω				
RK73B1H (0201)				±200	10Ω - 10ΜΩ	10Ω - 10ΜΩ	25V	50V		
RK73B1E (0402)				±400	_	1Ω - 9.1Ω	250	300		
111(73D1L (0402)	0.100			±200	1 Ω - 10M Ω	1Ω - 10ΜΩ	75V			
RK73B1J (0603)	0.1W			±200	1.1kΩ - 1MΩ	1.1kΩ - 10MΩ		100V		
HK73B13 (0003)	0.125W			±400		11ΜΩ - 22ΜΩ	75V	1000		
	0.125			±200	1Ω - 1kΩ	1Ω - 1kΩ				
RK73B2A (0805)	0.25W			±200	1Ω - 1ΜΩ	1Ω - 1ΜΩ	150V	200V		
		70°C	_	±400	1.1ΜΩ - 10ΜΩ	1.1ΜΩ - 10ΜΩ	150 V	200 V		
RK73B2B (1206)	0.25W		125°C	±200	1Ω - 5.6MΩ	1Ω - 5.6MΩ			-55°C to	
				±400	6.2 Μ Ω - 10 Μ Ω	6.2ΜΩ - 22ΜΩ			+155°C	
RK73B2E (1210)	0.50W			±200	10Ω - 5.6MΩ	1Ω - 5.6MΩ	200V	400V		
111(10)	0.0011			±400	_	6.2ΜΩ - 10ΜΩ	2001	4004		
RK73BW2H/2H	0.75W			±200	10Ω - 5.6MΩ	1Ω - 5.6MΩ				
(2010)	0.7011			±400	_	6.2MΩ - 22MΩ				
RK73BW3A/3A	1.0W			±200	10 Ω - 5.6M Ω	1Ω - 5.6MΩ	200V	400V		
(2512)	1.000	1.000			±400	_	6.2ΜΩ - 22ΜΩ	2001	7007	
RK73BW3A2	2.014/		0500	±200	10 Ω - 5.6M Ω	1Ω - 5.6MΩ	200V	400V		
(2512)	2.0W		95°C	±400	_	6.2ΜΩ - 22ΜΩ	2007	4000		

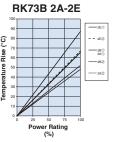
Rated voltage = $\sqrt{Power\ rating\ x\ resistance\ value\ or\ max}$. working voltage, whichever is lower

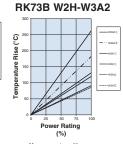
If any questions arise on whether to use the "Rated Ambient Temperatute" or the "Rated Terminal Part Temperature" in your usage conditions, please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details, refer to "Introduction of the derating curves based on the terminal part temperature" in the beginning of our catalog. Temperature rise at high power will depend on PCB layout. Be sure to contact factory prior to use and monitor terminal part temperature.

environmental applications

Temperature Rise



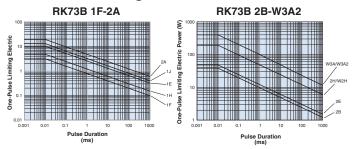






①: Hot spot ②: Terminal

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

is measured under our measuring conditions.

Regarding the temperature rise, the value of the temperature

varies per conditions and board for use since the temperature

	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%	±1%: 1F ±0.5%: Another	Rated Voltage x 2.5 for 5 seconds (1E, 2B, W3A2: Rated Voltage x 2 for 5 seconds)	
Resistance to Soldering Heat	±1%: 1F~W3A2 (10Ω≤R≤1MΩ) ±3%: 1F~W3A2 (R<10Ω, R>1MΩ)	±0.5%: 1F~W3A2 (10Ω≤R≤1MΩ); ±1%: 1F~W3A2 (R<10Ω, R>1MΩ)	260°C ± 5°C, 10 seconds ± 1 second	
Rapid Change of Temperature	±1%: 1F ±0.5%: Another	±0.5%: 1F ±0.3%: Another	-55°C (30 minutes), +125°C (30 minutes), 100 cycles	
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: Another	±0.75%: 1J, 2A, 2B ±1.5%: 1F; ±1%: Another	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%: Another	±0.75%: 1J, 2A, 2B ±1%: Another	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
High Temperature Exposure	±1%	±0.5%: 1F ±0.3%: Another	+125°C, 1000 hours: 1F; +155°C, 1000 hours: 1E, 1H, 1J. 2A. 2B. 2E. 2HW2H. 3AW3AW3A2	

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