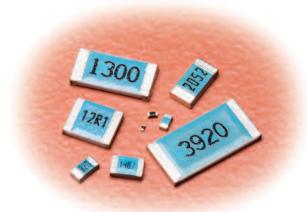




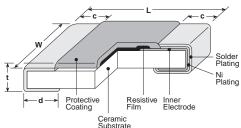
precision 0.5%, 1% tolerance thick film chip resistor



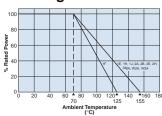
features

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

dimensions and construction



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.

	1	00	_							_		_	
			ŀ										
		80	Ť					1H, 1E,	1J, 2A, 2B 2H, W3A	2E,	\downarrow	İΤ	
	Powe	60	-					-	_	/3A2 —	\rightarrow	\vdash	
	ted	40	i .						, "	1		/ /	١
	% R		I							I		Γ	
		20	I										
0		-60) ^ -4	10 -	20				0 8	95		14 125	10 1 160
						Terr	ninal	Part T (°C)	empe	rature			

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.

Type*	Dimensions inches (mm)								
(Inch Size Code)	L	W	С	d	t				
1F (01005)	.016±.0008 (0.4±0.02)	.008±.0008 (0.2±0.02)	.004±.001 (0.1±0.03)	.004±.001 (0.11±0.03)	.005±.0008 (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)		.016 +.008 004 (0.4 +0.2)					
2E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)							
2H (2010)	.197±.008	.098±.008	00 : 040	-0.17	004.004				
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

RK73H	2B
Туре	Size
	1F
	1H
	1E
	1J
	2A
	2B
	2E
	W2H
	W3A
	2H
	3A
	W3A2

T: Sn (1F ~ W3A2) Contact factory for below options:
L: SnPb (1E, 1J, 2A, 2B, 2E, 2H, 3A) G: Au (1E \sim 2A: $10\Omega \sim 1M\Omega$)

_	
	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) TCD: 0201 only: 10" 2mm pitch pressed paper TPD: 0402 only: 10" 2mm pitch plastic embossed TPL: 0402 only: 2mm pitch plastic embossed TPL: 0402 only: 2mm pitch punch paper TP: 0402, 0603, 0805: 7" 2mm pitch punch paper TD: 0603, 0805, 1206, 1210: 7" 4mm pitch punched paper TDD: 0603, 0805, 1206, 1210: 10" paper tape TE: 0805, 1206, 1210, 2010 & 2512: 7" embossed plastic TED:0805, 1206, 1210, 2010 & 2512: 10" embossed plastic For further information on packaging, please refer to Appendix A

F
Tolerance
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.



precision 0.5%, 1% tolerance thick film chip resistor

Part	Power	Rated	Rated Terminal	T.C.R.	Resistance Range		Maximum	Maximum	Operating		
Designation	Rating	Ambient Temp.	Part Temp.	(x10 ⁻⁶ /K)	D±0.5% E-24, E-96	F±1% E-24, E-96*	Working Voltage	Overload Voltage	Temperature Range		
RK73H1F	0.03W		_	±200	_	100kΩ - 2MΩ*	20V	30V	-55°C to		
(01005)	0.00			±250		10Ω - 91kΩ*	20 0	30 V	+125°C		
RK73H1H	0.05W			±200	10Ω - 1ΜΩ	10Ω - 10MΩ*	- 25V	50V			
(0201)	0.0011			±400	_	1.0Ω - 9.1Ω*					
RK73H1E				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	75V	- 100V			
(0402)	0.1W			±200	_	1.0Ω - 9.76Ω 1.02MΩ - 10MΩ			- -55°C to +155°C		
	0.1W			±100	1.02 k Ω - 1 Μ Ω	1.02kΩ - 1MΩ					
RK73H1J	0.100			±200	1	1.02ΜΩ - 10ΜΩ	75V				
(0603)	0.125W			±100	10Ω - 1kΩ	10Ω - 1kΩ	750				
	0.125			±200	_	1.0Ω - 9.76Ω					
	0.25W			±100	10 Ω - 1M Ω	10Ω - 1ΜΩ	150V	200V			
RK73H2A (0805)		70°C		±200	1	1.0Ω - 9.76Ω					
(3333)		700		±400		1.02 Μ Ω - 10 Μ Ω					
	0.25W		125°C	±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ		400V			
RK73H2B (1206)				±200	_	1.0Ω - 9.76Ω 1.02ΜΩ - 5.6ΜΩ					
	0.5W			±400 ±100		5.62MΩ - 10MΩ					
				±100	10Ω - 1ΜΩ	10Ω - 1MΩ 1.0Ω - 9.76Ω					
RK73H2E (1210)				±200		1.022 - 9.7622 1.02MΩ - 5.6MΩ					
(',							±400	_	5.62MΩ - 10MΩ		
				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ					
RK73HW2H/2H (2010)	0.75W			±200	1	1.0Ω - 9.76Ω 1.02ΜΩ - 5.6ΜΩ	2001/		_		
				±400	_	5.62 M Ω - 10 M Ω					
				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ		400V			
RK73HW3A/3A (2512)	1.0W			±200	_	1.0Ω - 9.76Ω 1.02MΩ - 5.6MΩ					
				±400		5.62ΜΩ - 10ΜΩ					
DICZOLINA CA C				±100	10Ω - 1ΜΩ	10Ω - 1MΩ 1.0Ω - 9.76Ω					
RK73HW3A2 (2512)	2.0W	_	95°C	±200	_	1.02 Μ Ω - 5.6 Μ Ω	200V	400V			
				±400	_	5.62 M Ω - 10 M Ω					

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

environmental applications Performance Characteristics

*1F: E-24. 1H: 1.0~9.1, 1M~10MΩ: E-24. 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 based on the terminal part temperature" in the beginning of the catalog. While using under high power, the temperature of the product may increase depending on the condition of heat dissipation from PCB. Be sure to check the terminal part temperature as well as precautions to use on delivery specification before use.

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	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%: 1H ~ W3A2 (R<10Ω, R>1MΩ)	±0.5%: 1F ~ W3A2 (10Ω <r<1mω); 1h="" ~<br="" ±1%:="">W3A2 (R<10Ω, R>1MΩ)</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, 2H/W2H, 3A/W3A/W3A2						

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2/04/19