



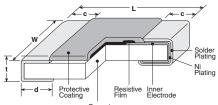
precision 0.5%, 1% tolerance thick film chip resistor

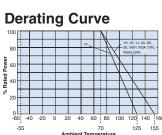


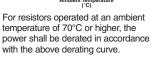
features

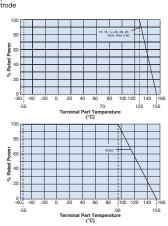
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: 0201 (1H), 0402 (1E), 0603 (1J), 0805 (2A), 1206 (2B), 1210 (2E), 2010 (2H/W2H), 2512 (3A/W3A/W3A2)

dimensions and construction









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)	.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} _{-0.1})	.02±.004 (0.5±0.1)			
2B (1206)	.126±.008	.063±.008 (1.6±0.2)		.016 +.008 004 (0.4 +0.2)	004 : 004			
2E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)						
2H (2010)	.197±.008	.098±.008 (2.5±0.2)	.02±.012 (0.5±0.3)					
W2H (2010)	(5.0±0.2)			.026±.006 (0.65±0.15)	.024±.004 (0.6±0.1)			
3A (2512)	.248±.008 (6.3±0.2)	.122±.008		.016 +.008 004 (0.4 +0.2)				
W3A/W3A2 (2512)	(0.3±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			

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

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

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

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.

6/18/20



precision 0.5%, 1% tolerance thick film chip resistor

applications and ratings

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 +125°C										
(01005)				±250	_	10Ω - 91kΩ*													
RK73H1H	0.05W			±200	10Ω - 1ΜΩ	10Ω - 10MΩ*	25V	50V											
(0201)	0.0011			±400	_	1.0Ω - 9.1Ω*													
RK73H1E	0.1W			±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	75V												
(0402)	_			±200		1.0Ω - 9.76Ω, 1.02ΜΩ - 10ΜΩ													
	0.1W			±100	1.02kΩ - 1MΩ	1.02kΩ - 1MΩ	- 75V	100V											
RK73H1J				±200	_	1.02ΜΩ - 10ΜΩ													
(0603)	0.125W			±100	10Ω - 1kΩ	10Ω - 1kΩ													
	02011			±200	-	1.0Ω - 9.76Ω													
RK73H2A		w		±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	150V	200V											
(0805)	0.25W			±200		1.0Ω - 9.76Ω													
(,				±400	_	1.02ΜΩ - 10ΜΩ													
RK73H2B		70°C	70°€	70°C	70°C	70°C	70°C	70°C	70°€	70°€	70°C	70°C	125°C	±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	4		
(1206)	0.25W		125°C	±200	_	1.0Ω - 9.76Ω, 1.02ΜΩ - 5.6ΜΩ													
	DYZOLOE			±400	-	5.62ΜΩ - 10ΜΩ	_		-55°C to +155°C										
RK73H2E				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ													
(1210)		,		±200	_	1.0Ω - 9.76Ω, 1.02ΜΩ - 5.6ΜΩ	200V	400V											
													±400		5.62ΜΩ - 10ΜΩ				
RK73HW2H/2H				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	4	İ											
(2010)	0.75W		-				±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ										
(/	(2010)					ĺ			İ			±400	_	5.62ΜΩ - 10ΜΩ			_		
DICZOLUMO A /O A	1.0W				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ] '											
RK73HW3A/3A (2512)				±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ	200V	400V											
(· · · - /				±400	_	5.62ΜΩ - 10ΜΩ													
D./.		2.0W			±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ												
RK73HW3A2 (2512)	2.0W		95°C	±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ	200V	400V	1										
()				±400	_	5.62ΜΩ - 10ΜΩ													

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

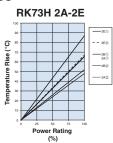
*1F: E-24. 1H: 1.0~9.1, 1M~10M Ω : E-24. If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves based 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.

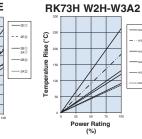
One-Pulse Limiting Electric Power

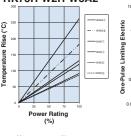
environmental applications

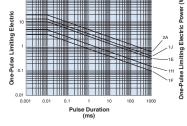
Temperature Rise

RK73H 1F-1J

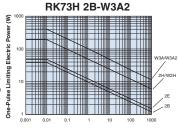








RK73H 1F-2A



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.

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 A	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); ±1%: 1H ~ 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, 2HW2H, 3AW3AW3A2		

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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Authorized Distributor

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KOA Speer:

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RK73H2ELTD1270F RK73H2BLTD3241F RK73H2BLTE15R0F RK73H2BLTD3241D RK73H2ALTD7150F
RK73H2BLTD9763F RK73H2BLTD3243D RK73H1ELTP1433F RK73H2ELTD1210F RK73H1JLTD53R6F
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