



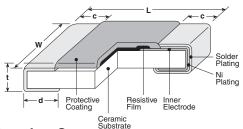
precision 0.5%, 1% tolerance thick film chip resistor



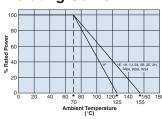
features

- Products with lead-free terminations meet EU RoHS reguirements. 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.

	100	!							Ņ		1	
	80	H							1	$\overline{}$	1	
	wer	li -					1H, 1E, 1	IJ, 2A, 2B 2H, W3A I	. 2E, (1W)	\downarrow	⇈∖	
	% Rated Power	!						W	/3A2		1	
	40	H							\pm		\uparrow	\vdash
	% 20	1							1		1	
		ŀ									-	
0	-6	DA -4	0 -2	0 0) 2	0 4	0 6	0 8		00 120		
	0 -60 ^A -40 -20 0 20 40 60 80 100 120 155 -55 Terminal Part Temperature (°C)											
	_											

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*		s (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)	004 004	
2E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)				
2H (2010)	.197±.008	.098±.008	00.010	-0.17		
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)	
		.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

Termi	nation
Mat	erial
for belo options L: SnP	t factory bw : b 2A, 2B, 3A)

Termination Material		Packaging
T: Sn (1F ~ W Contact for belo options: L: SnPt (1E, 1J, 2E, 2H, G: Au (1E ~ 2 10Ω ~ 1	t factory w : : : : : : : : : : : : : : : : : :	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 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 further information on packaging, please refer to Appendix A

TD

1003	
Nominal Resistance	
3 significant figures + 1 multiplier	
"R" indicates decimal on value $<$ 100 Ω	

Toler	ance
D: ±0	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

applications and ratings

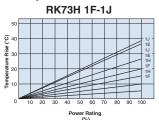
. .		Rated	Rated Rated			Resistance Range	Maximum	Maximum	Operating	
Part Designation	Power Rating	Ambient Temp.	Terminal Part Temp.	T.C.R. (x10 ⁻⁶ /K)	D±0.5% E-24, E-96	F±1% E-24, E-96*	Working Voltage	Overload Voltage	Temperature Range	
RK73H1F	0.03W		_	±200	_	100kΩ - 2MΩ*	20V	30V	-55°C to +125°C	
(01005)	0.0011			±250	_	10Ω - 91kΩ*	201			
RK73H1H	0.05W			±200	10Ω - 1ΜΩ	10Ω - 10MΩ*	25V	50V		
(0201)	0.05**			±400	_	1.0Ω - 9.1Ω*	25 V			
RK73H1E	0.1W			±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	75V			
(0402)	0.177			±200	_	1.0Ω - 9.76Ω, 1.02ΜΩ - 10ΜΩ			-55°C to +155°C	
	0.1W			±100	1.02kΩ - 1MΩ	1.02kΩ - 1MΩ		100V		
RK73H1J	0.100			±200	_	1.02ΜΩ - 10ΜΩ	75V	1.000		
(0603)	0.125W			±100	10Ω - 1kΩ	10Ω - 1kΩ				
	0.12500			±200	_	1.0Ω - 9.76Ω				
	0.25W	70°C		±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	150V	200V		
RK73H2A				±200	_	1.0Ω - 9.76Ω				
(0805)				±400	_	1.02ΜΩ - 10ΜΩ				
	0.25W			±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ	200V	400V		
RK73H2B (1206)			125°C	±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ				
(1200)				±400	_	5.62ΜΩ - 10ΜΩ				
	0.5W	w		±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ				
RK73H2E (1210)				±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ				
(1210)						±400	_	5.62ΜΩ - 10ΜΩ	1	
				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ				
RK73HW2H/2H	(73HW2H/2H (2010) 0.75W			±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ				
(2010)				±400	_	5.62ΜΩ - 10ΜΩ	1			
	±100 10Ω -		10Ω - 1ΜΩ	10Ω - 1ΜΩ			1			
RK73HW3A/3A (2512)	1.0W			±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ	200V	400V		
(2312)				±400	_	5.62ΜΩ - 10ΜΩ	1			
				±100	10Ω - 1ΜΩ	10Ω - 1ΜΩ			1	
RK73HW3A2	2.0W	_	95°C	±200	_	1.0Ω - 9.76Ω, 1.02MΩ - 5.6MΩ	200V	400V		
(2512)				±400	_	5.62ΜΩ - 10ΜΩ				

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

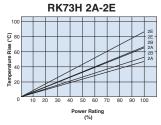
*1F: E-24. 1H: 1.0~9.1, 1M~10M Ω : E-24. If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves based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

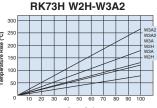
environmental applications

Temperature Rise

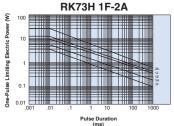


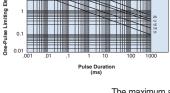
Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

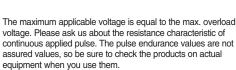




One-Pulse Limiting Electric Power







RK73H 2B-W3A2

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%	±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, 2H/W2H, 3A/W3A/W3A2		

PCB: FR-4t = 1.6m Cu foil thin

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Mouser Electronics

Authorized Distributor

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KOA Speer:

RN73H2ATTDK215	1B10 RK73H2ETTD1	151F RK73H2ETTD3	240F RK73H2ETTD3	R92F RK73H2ETTD4221F
RK73H2ETTD5R62F	RK73H2ETTD6042F	RK73H2HTTE34R0F	RK73H2HTTE5903F	RK73H3ATTE52R3F
RK73H2HTTE1331F	RK73H2ETTD7680F	RK73H2HTTE8450F	RK73H3ATTE4753F	RK73H2ATTD1R54F
RK73H2ATTD1R40F	RK73H2ETTD1200F	RK73H2HTTE3013F	RK73H2ATTD8201D	RK73H2ETTD1781F
RK73H1JTTD3301D	RK73H2ATTD3R65F	RK73H2ATTD8871D	RK73H2BTTD1601F	RK73H2BTTD2002D
RK73H3ATTE1331F	RK73H3ATTE1960F	RK73H3ATTE31R6F	RK73H3ATTE3480F	RK73H2ETTD7150F
RK73H2HTTE1963F	RK73H2HTTE2431F	RK73H2HTTE4641F	RK73H2HTTE5900F	RK73H2HTTE5R11F
RK73H2ATTD1203D	RK73H2ATTD4020D	RK73H2ATTD4752D	RK73H2ATTD2701D	RK73H2ATTD1102D
RK73H2ATTD10R7F	RK73H2ATTD2942D	RK73H2ATTD47R0D	RK73H2ATTD5492D	RK73H2ATTD19R1D
RK73H2ATTD2211D	RK73H2ATTD1101D	RK73H2ATTD2402D	RK73H2ATTD3093D	RK73H2ATTD6043D
RK73H2ATTD1602D	RK73H2ATTD1502D	RK73H2ATTD90R9D	RK73H2ATTD41R2E	RK73H2ATTD6981D
RK73H2ATTD1070D	RK73H2ATTD2552D	RK73H2ATTD2403D	RK73H2ATTD9101D	RK73H2ATTD4323D
RK73H2ATTD7322D	RK73H2ATTD9531D	RK73H2ATTD3323D	RK73H2ATTD6342D	RK73H2ATTD2431D
RK73H2ATTD4750D	RK73H2ATTD36R5D	RK73H2ATTD59R0D	RK73H2ATTD73R2I	D RK73H2ATTD4304F
RK73H2ATTD8200D	RK73H2ATTD2704F	RK73H2ATTD1000D	RK73H2ATTD14R3D	RK73H2ATTD3902D
RK73H2ATTD1403D	RK73H2ATTD7871D	RK73H2ATTD1R13F	RK73H2ATTD2321D	RK73H2ATTD26R1D
RK73H2ATTD1651D	RK73H2ATTD22R6D	RK73H2ATTD3090D	RK73H2ATTD12R1E	RK73H2ATTD2432D
RK73H2ATTD4873D	RK73H2ATTD4870D	RK73H2ATTD5602D	RK73H2ATTD2493D	RK73H2ATTD1132D
RK73H2ATTD6041D	RK73H2ATTD1242D	RK73H2ATTD2323D	RK73H2ATTD6191D	RK73H2ATTD1743D
RK73H2ATTD1133D	RK73H2ATTD15R8D	RK73H2ATTD1301D	RK73H2ATTD1781D	RK73H2ATTD21R0D