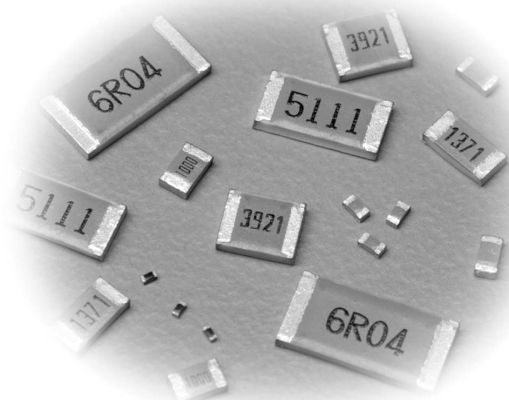


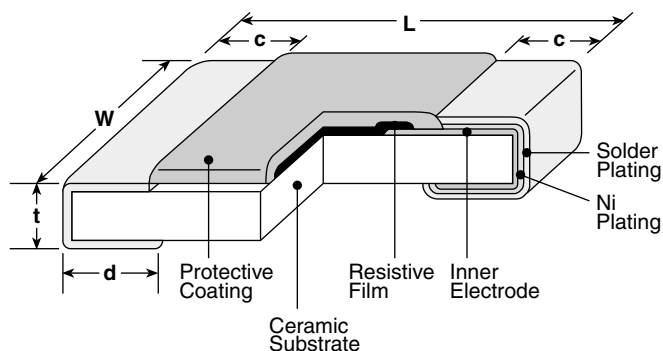
**precision 0.5%, 1% tolerance
thick film chip resistor**



features

- RuO₂ thick film resistor element
- Anti-leaching nickel barrier terminations
- 90/10 solder plated terminations, standard
- Available in 100% tin terminations (no lead)
- Also available with epoxy bondable palladium silver terminations in 2A and 2B sizes
- Meets or exceeds EIA 575, EIAJ RC 2690A, EIA PDP-100, MIL-R-55342F
- Marking: Four-digit black on blue protective coat
No marking on 1H or 1E sizes
Three-digit on 1J size, E-24 values only

dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	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 ^{+.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} _{-0.1})	.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 (3.2±0.2)	.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 ^{+.008} _{-.004} (0.4 ^{+0.2} _{-0.1})	.024±.004 (0.6±0.1)
2E (1210)		.102±.008 (2.6±0.2)			
2H (2010)	.197±.008 (5.0±0.2)	.098±.008 (2.5±0.2)			
3A (2512)	.248±.008 (6.3±0.2)	.122±.008 (3.1±0.2)			

ordering information

Old Part #	RK73	H	2B		T	1003	F
New Part #	RK73H		2B	L	TD	1003	F
	Type	Solderable	Size	Termination Material	Packaging	Nominal Resistance	Tolerance
			1H	L: SnPb	TB: 2mm pitch pressed paper (0201 only)	3 significant figures + 1 multiplier	D: ±0.5%
			1E	T: Sn	TP: 2mm pitch punched paper (0402 & 0603 only)	"R" indicates decimal on value <100Ω	F: ±1%
			1J		TD: 7" paper tape		
			2A		TDD: 10" paper tape		
			2B		TE: 7" embossed plastic		
			2E		TED: 10" embossed plastic		
			2H				
			3A				

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.

applications and ratings

Part Designation*	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range E-24, E-96 (D±0.5%)	Resistance Range E-24, E-96 (F±1%)	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range**
RK73H1H (0201)	1/20W (.05W)	±200	—	10Ω - 1MΩ ¹	25V	50V	-55°C to +125°C
RK73H1E (0402)	1/16W (.063W)	±100	10Ω - 976KΩ	10Ω - 1MΩ	50V	100V	-55°C to +155°C
RK73H1J (0603)	1/10W (.10W)	±100	10Ω - 976KΩ	10Ω - 1MΩ	50V	100V	
		±400	—	1.0Ω - 9.76Ω			
RK73H2A (0805)	1/8W (.125W)	±100	10Ω - 976KΩ	10Ω - 1MΩ	150V	300V	
		±400	—	1.0Ω - 9.76Ω 1.02MΩ - 10MΩ			
RK73H2B (1206)	1/4W (.25W)	±100	10Ω - 976KΩ	10Ω - 1MΩ	200V	400V	
		±200	—	1.02MΩ - 5.6MΩ			
		±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
RK73H2E (1210)	1/2W (.50W)	±100	10Ω - 1KΩ	10Ω - 1KΩ			
	1/3W (.33W)		1.02KΩ - 976KΩ	1.02KΩ - 1MΩ			
	1/3W (.33W)	±200	—	1.02MΩ - 5.6MΩ			
	1/2W (.50W)	±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
	1/3W (.33W)		—	—			
RK73H2H (2010)	3/4W (.75W)	±100	10Ω - 976KΩ	10Ω - 1MΩ			
		±200	—	1.02MΩ - 5.6MΩ			
		±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
RK73H3A (2512)	1W	±100	10Ω - 976KΩ	10Ω - 1MΩ			
		±200	—	1.02MΩ - 5.6MΩ			
		±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			

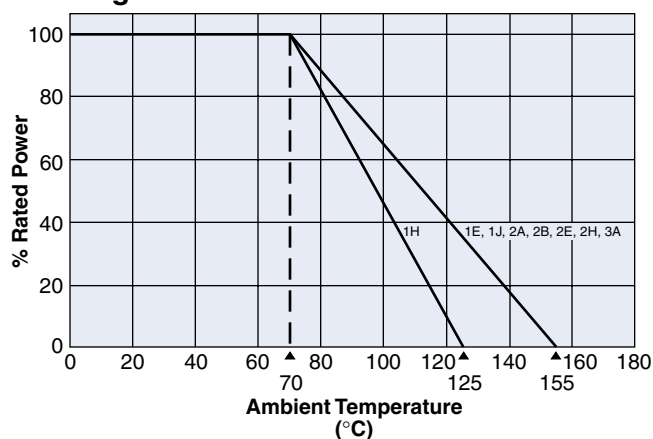
* Parenthesis indicate EIA package size codes.

¹ E-24 values only.

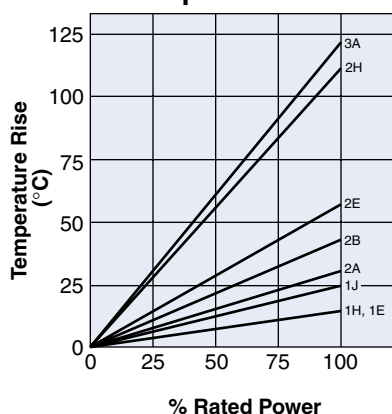
** 1J, 2A, 2B sizes available -55°C to +175°C (contact factory).

environmental applications

Derating Curve



Surface Temperature Rise



For complete environmental specifications, please refer to pages 22-23.

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