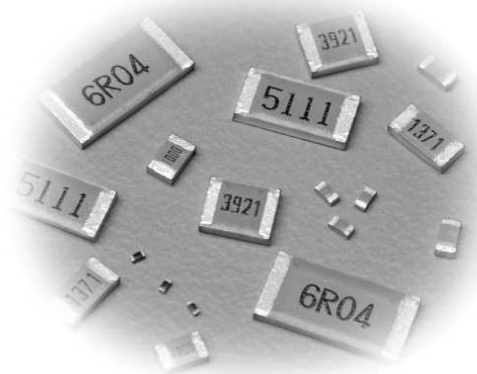
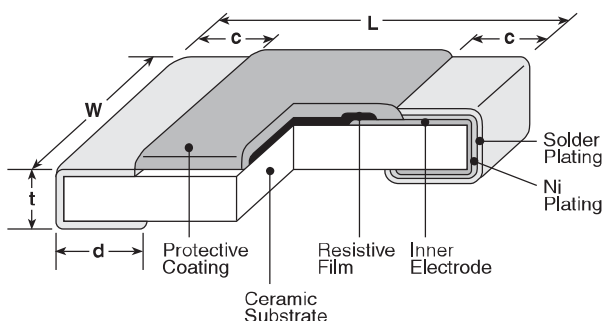




features

- 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 1J, 2A and 2B sizes. Gold termination available for 1E and 1J 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 ^{+.01} _{-.005})	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 ^{+.002} _{-.004} (0.25 ^{+.005} _{-.01})	.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 ^{+.01} _{-.01})	.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 ^{+.02} _{-.01})	.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 1E 1J 2A 2B 2E 2H 3A	X: AgPd** G: Au* L: SnPb T: Sn	TB: 2mm pitch pressed paper (0201 only) TP: 2mm pitch punched paper (0402 & 0603) TD: 7" paper tape (0603, 0805, 1206 & 1210) TDD: 10" paper tape (0603, 0805, 1206 & 1210) TE: 7" punched plastic (0805, 1206, 1210, 2010 & 2512) TED: 10" punched plastic (0805, 1206, 1210, 2010 & 2512)	3 significant figures + 1 multiplier "R" indicates decimal on value < 100Ω	D: ±0.5% F: ±1%

* Available ONLY in 1E and 1J
(10Ω ~ 1MΩ) chip sizes

** Available ONLY in 1J, 2A and 2B
(10Ω ~ 10MΩ) chip sizes

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.

6/22/04

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	10Ω - 1MΩ ¹	25V	50V	-55°C to +125°C
RK73H1E (0402)	1/16W (.063W)	±100	10Ω - 976k	10Ω - 1MΩ	50V	100V	-55°C to +155°C
		±200	—	1.02MΩ - 10MΩ			
		±400	—	1.0Ω - 9.76Ω			
RK73H1J (0603)	1/10W (.10W)	±100	10Ω - 1MΩ	10Ω - 1MΩ			
		±400	—	1.0Ω - 9.76Ω			
		±200	—	1.02MΩ - 10MΩ			
RK73H2A (0805)	1/8W (.125W)	±100	10Ω - 1MΩ	10Ω - 1MΩ	150V	300V	
		±400	—	1.0Ω - 9.76Ω 1.02MΩ - 10MΩ			
RK73H2B (1206)	1/4W (.25W)	±100	10Ω - 1MΩ	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 - 1MΩ	1.02KΩ - 1MΩ			
	1/3W (.33W)	±200	—	1.02MΩ - 5.6MΩ			
	1/2W (.50W)	±400	—	1.0Ω - 9.76Ω			
	1/3W (.33W)		—	5.62MΩ - 10MΩ			
RK73H2H (2010)	3/4W (.75W)	±100	10Ω - 1MΩ	10Ω - 1MΩ			
		±200	—	1.02MΩ - 5.6MΩ			
		±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
RK73H3A (2512)	1W	±100	10Ω - 1MΩ	10Ω - 1MΩ			
		±200	—	1.02MΩ - 5.6MΩ			
		±400	—	1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			

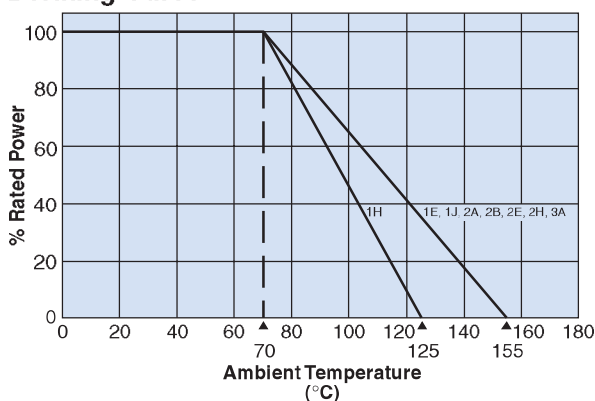
* Parenthesis indicate EIA package size codes.

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

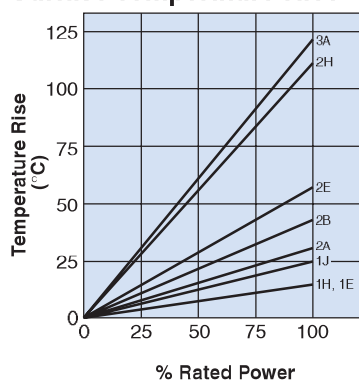
¹ E-24 values only.

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.

5/28/04