

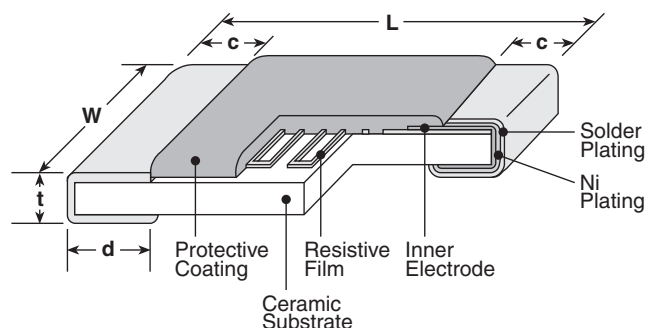
precision high heat resistance metal film chip resistor



features

- SMD metal film resistors
- High precision type $\pm 0.05\%$ is available with standard products
- Improved moisture resistance by special protective coating
- Rated up to $+155^{\circ}\text{C}$
- Marking: Black coating
- Products with lead-free terminations meet RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
1J (0603)	.063 $\pm$.008 (1.6 $\pm$ 0.2)	.031 $\pm$.004 (0.8 $\pm$ 0.1)	.012 $\pm$.004 (0.3 $\pm$ 0.1)	.012 $\pm$.004 (0.3 $\pm$ 0.1)	.018 $\pm$.004 (0.45 $\pm$ 0.1)
2A (0805)	.079 $\pm$.008 (2.0 $\pm$ 0.2)	.049 $\pm$.004 (1.25 $\pm$ 0.1)	.016 $\pm$.008 (0.4 $\pm$ 0.2)	.012 $\pm$.008 (0.3 $\pm$ 0.2)	.02 $\pm$.004 (0.5 $\pm$ 0.1)
2B (1206)	.126 $\pm$.008 (3.2 $\pm$ 0.2)	.063 $\pm$.008 (1.6 $\pm$ 0.2)	.02 $\pm$.012 (0.5 $\pm$ 0.3)	.016 $\pm$.008 (0.4 $\pm$ 0.2)	.024 $\pm$.004 (0.6 $\pm$ 0.1)
2E (1210)		.098 $\pm$.008 (2.5 $\pm$ 0.2)			

ordering information

New Part #	RN73H	2B	T	TD	1002	B	25
Type		Size	Termination Material	Packaging	Nominal Resistance	Resistance Tolerance	T.C.R. (ppm/ $^{\circ}\text{C}$)
		1J: 0.1W 2A: 0.125W 2B: 0.25W 2E: 0.25W	T: Sn (Other termination styles may be available, please contact factory for options)	TD: 7" paper tape (0603, 0805, 1206, 1210) TE: 7" punched plastic (0805, 1206, 1210)	3 significant figures + 1 multiplier "R" indicates decimal on value <100 Ω	A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$ F: $\pm 1.0\%$	05 10 25 50 100

For further information on packaging, please refer to Appendix A.

applications and ratings

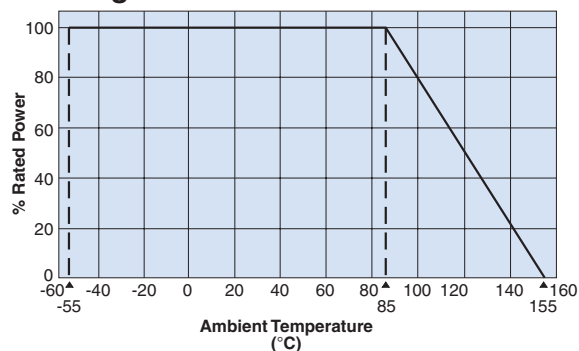
Part Designation	Power Rating @ 70°C		T.C.R. (ppm/°C) Max.	Resistance Range E-24, E-96*					Maximum Working Voltage	Maximum Overload Voltage	Operating Temp. Range
	Cond.A**	Cond.B**		(A±0.05%)	(B±0.1%)	(C±0.25%)	(D±0.5%)	(F±1.0%)			
RN73H1J	1/10W (.10W)	1/16W (.063W)	±5	100Ω - 47kΩ	100Ω - 47kΩ	—	—	—	75V	150V	-55°C to +155°C
			±10			100Ω - 47kΩ	100Ω - 47kΩ	100Ω - 47kΩ			
			±25	51Ω - 47kΩ	15Ω - 47kΩ	15Ω - 47kΩ	10Ω - 47kΩ	10Ω - 47kΩ			
			±50	—							
			±100	—	—	—					
RN73H2A	1/8W (.125W)	1/10W (.10W)	±5	100Ω - 100kΩ	100Ω - 100kΩ	—	—	—	100V	200V	
			±10			100Ω - 100kΩ	100Ω - 100kΩ	100Ω - 100kΩ			
			±25	51Ω - 100kΩ	15Ω - 100kΩ	15Ω - 100kΩ	10Ω - 100kΩ	10Ω - 100kΩ			
			±50	—							
			±100	—	—	—					
RN73H2B	1/4W (.25W)	1/8W (.125W)	±5	100Ω - 330kΩ	100Ω - 300kΩ	—	—	—	150V	300V	
			±10			100Ω - 300kΩ	100Ω - 300kΩ	100Ω - 300kΩ			
			±25	51Ω - 300kΩ	15Ω - 300kΩ	15Ω - 300kΩ	10Ω - 300kΩ	10Ω - 300kΩ			
			±50	—							
			±100	—	—	—					
RN73H2E	1/4W (.25W)	1/4W (.25W)	±10	100Ω - 510kΩ	100Ω - 510kΩ	100Ω - 510kΩ	100Ω - 510kΩ	100Ω - 510kΩ	200V	400V	
			±25	51Ω - 510kΩ	15Ω - 510kΩ	15Ω - 510kΩ	10Ω - 510kΩ	10Ω - 510kΩ			
			±50	—							
			±100	—	—	—					

* E-192 resistance range available, please contact KOA Speer

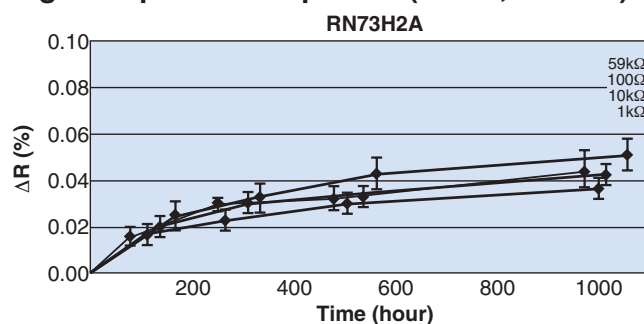
** The performance requirements are different according to the power rating

environmental applications

Derating Curve



High Temperature Exposure (155°C, 1000 hr)



For complete environmental specifications, please refer to pages 30-31.