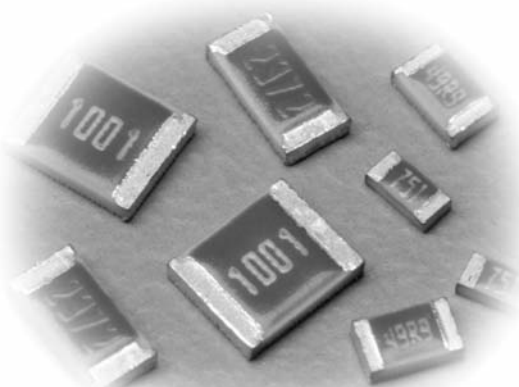


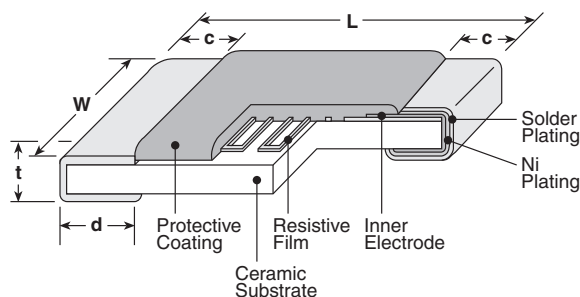


features

- Nickel chromium thin film resistor element
- Anti-leaching nickel barrier terminations
- Meets or exceeds EIA 576, MIL-R-55342F
- Marking: Four-digit, distinctive color identifiers
(Only E-24 values are marked on 1J)
- Products with lead-free terminations meet EU RoHS requirements

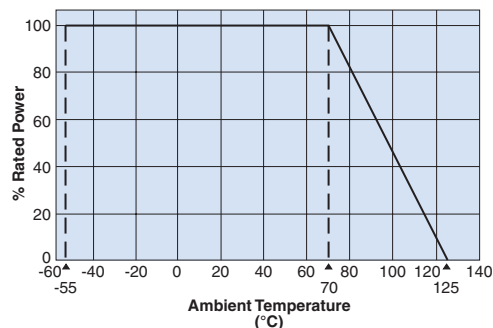


dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
RN73 1E (0402)	.039 ^{+0.004} _{-.002} (1.0 ^{+0.1} _{-.005})	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 ^{+0.002} _{-.004} (0.25 ^{+0.05} _{-.01})	.014±.002 (0.35±0.05)
RN73 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)
RN73 2A (0805)	.079±.008 (2.0±0.2)	.049±.008 (1.25±0.2)	.016±.008 (0.4±0.2)	.012 ^{+0.008} _{-.004} (0.3 ^{+0.2} _{-.01})	.02±.004 (0.5±0.1)
RN73 2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 ^{+0.008} _{-.004} (0.4 ^{+0.2} _{-.01})	.024±.004 (0.6±0.1)
RN73 2E (1210)		.098±.008 (2.5±0.2)			

Derating Curve



ordering information

New Part #	RN73	2B	T	TE	1002	B	25
	Type	Size	Termination Material	Packaging	Nominal Resistance	Tolerance	T.C.R. (ppm/°C)
		1E 1J 2A 2B 2E	T: Sn L: SnPb	TP: 0402, 0603, 0805: 7" 2mm pitch punch paper TD: 0603, 0805, 1206, 1210: 7" 2mm pitch punched paper TDD: 0603, 0805, 1206, 1210: 10" paper tape TE: 0805, 1206, 1210: 7" punched plastic TED: 0805, 1206, 1210: 10" punched plastic For further information on packaging, please refer to Appendix A	3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω	A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5% F: ±1.0%	05 10 25 50 100

applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range E-24, E-96					Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
			(A±0.05%)	(B±0.1%)	(C±0.25%)	(D±0.5%)	(F±1.0%)			
RN731E	1/16W (.063W)	±25	—	100Ω - 100kΩ	100Ω - 100kΩ	10Ω - 100kΩ	10Ω - 100kΩ	25V	50V	-55°C to +125°C
		±50	—	100Ω - 100kΩ	100Ω - 100kΩ	10Ω - 100KΩ	10Ω - 100KΩ			
RN731J	1/16W (.063W)	±5	1KΩ - 47KΩ	100Ω - 47kΩ	—	—	—	50V	100V	
		±10	1KΩ - 47KΩ	100Ω - 47KΩ	100Ω - 47KΩ	100Ω - 47KΩ	100Ω - 47KΩ			
		±25	1KΩ - 47KΩ	15Ω - 360kΩ	15Ω - 360kΩ	10Ω - 360kΩ	10Ω - 360kΩ			
		±50	—	15Ω - 360kΩ	15Ω - 360kΩ	10Ω - 360kΩ	10Ω - 360kΩ			
		±100	—	—	—	10Ω - 360kΩ	10Ω - 360kΩ			
RN732A	1/10W (.10W)	±5	100Ω - 100KΩ	100Ω - 100kΩ	—	—	—	100V	200V	
		±10	100Ω - 100KΩ	100Ω - 100kΩ	100Ω - 100kΩ	100Ω - 100kΩ	100Ω - 100kΩ			
		±25	51Ω - 100kΩ	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±50	—	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±100	—	—	—	10Ω - 1MΩ	10Ω - 1MΩ			
RN732B	1/8W (.125W)	±5	100Ω - 300kΩ	100Ω - 300kΩ	—	—	—	150V	300V	
		±10	100Ω - 300kΩ	100Ω - 300KΩ	100Ω - 300KΩ	100Ω - 300KΩ	100Ω - 300KΩ			
		±25	51Ω - 300kΩ	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±50	—	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±100	—	—	—	10Ω - 1MΩ	10Ω - 1MΩ			
RN732E	1/4W (.25W)	±10	100Ω - 510KΩ	100Ω - 510KΩ	100Ω - 510KΩ	100Ω - 510KΩ	100Ω - 510KΩ	200V	400V	
		±25	51Ω - 510kΩ	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±50	—	15Ω - 1MΩ	15Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ			
		±100	—	—	—	10Ω - 1MΩ	10Ω - 1MΩ			

E-192 Resistance Range available, contact factory for details

environmental applications

Performance Characteristics

Parameter	Requirement Δ R		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/+125°C: T.C.R. = ±5 (X10 ⁻⁶ /K) +25°C/-55°C and +25°C/+125°C: another
Overload (Short time)	±0.1%	±0.01%	Rated Voltage x 2.5 or Max. overload volume, whichever is less for 5 seconds
Resistance to Solder Heat	±0.1%	±0.04%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.25%	±0.03%	-55°C (30 minutes), +125°C (30 minutes), 5 cycles
Moisture Resistance	±0.5%	±0.06%	RN73: 40°C ± 2°C, 90%-95% RH, 1000 hours
Endurance at 70°C	±0.25%	±0.02%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	—	±0.01%	+125°C, 100 hours

For Surface Temperature Rise Graph see Terms & Definitions. Additional environmental applications can also be found at www.koaspeer.com

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

12/22/08