

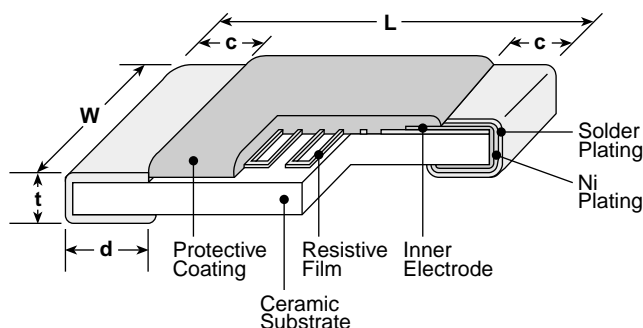
ultra precision 0.05%, 0.1%, 1% tolerance thin film chip resistor



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 RoHS requirements

dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
1E (0402)	.039 ^{+0.004} / _{-.002} (1.0 ^{+0.1} / _{-0.05})	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 ^{+0.002} / _{-.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 ^{+0.008} / _{-.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 ^{+0.008} / _{-.004} (0.4 ^{+0.2} / _{-0.1})	.024±.004 (0.6±0.1)
2E (1210)		.098±.008 (2.5±0.2)			

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 (Other termination styles available, contact factory for options)	TP: 2mm pitch punched paper (0402 only) TD: 7" paper tape (0603, 0805, 1206 & 1210) TDD: 10" paper tape (0603, 0805, 1206 & 1210) TE: 7" punched plastic (0805, 1206 & 1210) TED: 10" punched plastic (0805, 1206 & 1210)	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

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					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	±25	—	100Ω - 10KΩ	100Ω - 10KΩ	10Ω - 10KΩ		25V	50V	-55°C to +125°C
RN731E*	(.063W)	±50		10Ω - 100KΩ						
RN731J	1/16W (.063W)	±5	100Ω - 47kΩ	—			50V	100V		
RN731J		±10	100Ω - 47KΩ							
RN731J		±25	15Ω - 150kΩ		10Ω - 150kΩ					
RN731J		±50	15Ω - 330KΩ		10Ω - 330KΩ					
RN731J		±100	—	—	—	10Ω - 330kΩ				
RN732A		±5	100Ω - 100KΩ	100Ω - 100kΩ	—				100V	
RN732A	±10	100Ω - 100KΩ								
RN732A	±25	51Ω - 100kΩ	15Ω - 1MΩ		10Ω - 1MΩ					
RN732A	±50	—								
RN732A	±100	—	—	—						
RN732B	1/8W (.125W)	±5	100Ω - 330kΩ	100Ω - 300kΩ	—			150V	300V	
RN732B		±10	100Ω - 300KΩ							
RN732B		±25	51Ω - 300kΩ	15Ω - 1MΩ		10Ω - 1MΩ				
RN732B		±50	—							
RN732B		±100	—	—	—					
RN732E	1/4W (.25W)	±10	100Ω - 510KΩ	100Ω - 510KΩ				200V	400V	
RN732E		±25	51Ω - 510kΩ	15Ω - 1MΩ		10Ω - 1MΩ				
RN732E		±50	—							
RN732E		±100	—	—	—					

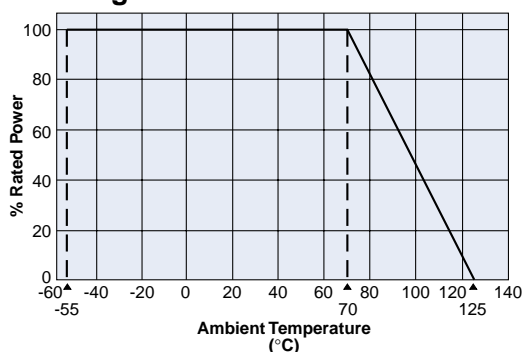
* 1E sizes available in E-24 values only.

** +150°C operating temperature is available by special request.

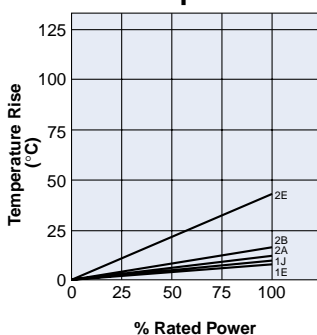
E-192 Resistance Range available, contact factory for details

environmental applications

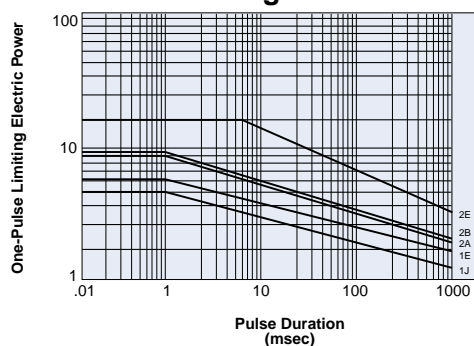
Derating Curve



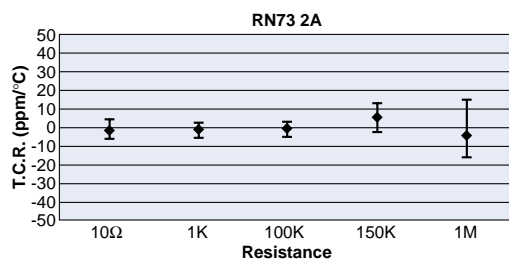
Surface Temperature Rise



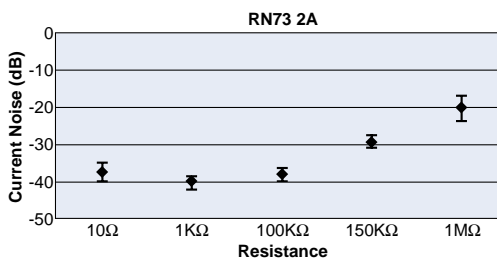
One-Pulse Limiting Electric Power



T.C.R. Characteristics



Noise Characteristics



For complete environmental specifications, please refer to pages 28-29.