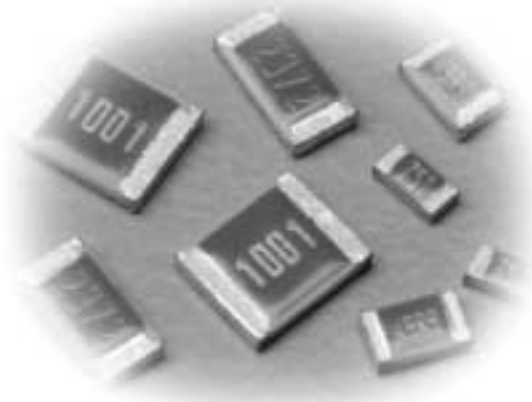


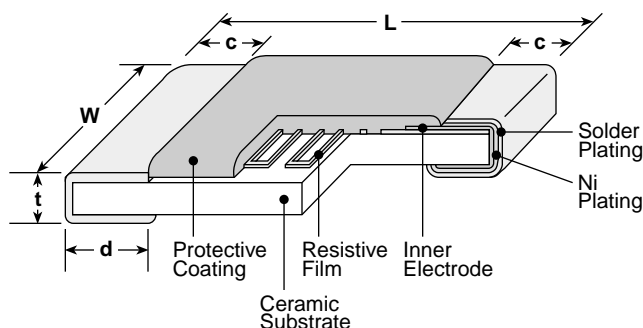
## ultra precision 0.05%, 0.1%, 1% tolerance thin film chip resistor



### features

- Nickel chromium thin film resistor element
- Anti-leaching nickel barrier terminations
- 90/10 solder plated terminations, standard
- Meets or exceeds EIA 576, MIL-R-55342F
- Marking: Four-digit, distinctive color identifiers (Only E-24 values are marked on 1J)

### dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>1H</b> (0201)	.024±.002 (0.6±0.05)	.012±.001 (0.3±0.03)	.004±.002 (0.1±0.05)	.006±.002 (0.15±0.05)	.009±.002 (0.23±0.05)
<b>1E</b> (0402)	.039 <sup>+.004</sup> <sub>-.002</sub> (1.0 <sup>+.01</sup> <sub>-.05</sub> )	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 <sup>+.002</sup> <sub>-.004</sub> (0.25 <sup>+.05</sup> <sub>-.1</sub> )	.014±.002 (0.35±0.05)
<b>1J</b> (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)
<b>2A</b> (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 <sup>+.008</sup> <sub>-.004</sub> (0.3 <sup>+.2</sup> <sub>-.1</sub> )	.02±.004 (0.5±0.1)
<b>2B</b> (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 <sup>+.008</sup> <sub>-.004</sub> (0.4 <sup>+.2</sup> <sub>-.1</sub> )	.024±.004 (0.6±0.1)
<b>2E</b> (1210)		.098±.008 (2.5±0.2)			

### ordering information

Old Part #	RN73	E	2B		T	1002	B	
New Part #	RN73		2B	L	TE	1002	B	25
	Type	T.C.R.	Size	Termination Material	Packaging	Nominal Resistance	Tolerance	T.C.R. (ppm/°C)
		T: ±10 E: ±25 C: ±50	1H 1E 1J 2A 2B 2E	L: SnPb T: Sn	TB: 2mm pitch pressed paper (0201 only) TP: 2mm pitch punched paper (0402 only) TD: 7" paper tape TDD: 10" paper tape TE: 7" embossed plastic TED: 10" embossed plastic	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%	10 25 50

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.

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

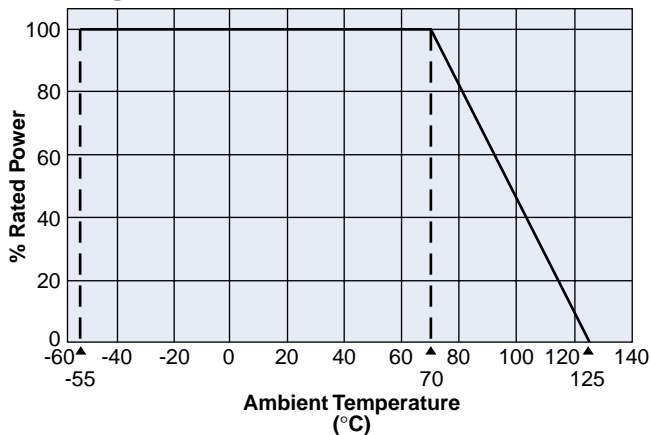
**applications and ratings**

	Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range E-24, E-96, E-192**					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%)			
UNDER DEVELOPMENT	RN73E1H*	50mW (1/20W)	±25	—					15V	30V	-55°C to +125°C
	RN73C1H*		±50	—							
	RN73E1E*	63mW (1/16W)	±25	750Ω - 10KΩ	100Ω - 10KΩ	33Ω - 4.7KΩ		25V	50V		
	RN73C1E*		±50			10Ω - 100KΩ					
NEW	RN73T1J	63mW (1/16W)	±10	100Ω - 33KΩ					50V	100V	
	RN73E1J		±25	100Ω - 104KΩ	51Ω - 104KΩ	10Ω - 104KΩ					
	RN73C1J		±50			10Ω - 104KΩ					
	RN73T2A	100mW (1/10W)	±10	1KΩ - 63.4KΩ	100Ω - 100KΩ			100V	200V		
	RN73E2A		±25		15Ω - 1MΩ		10Ω - 1MΩ				
	RN73C2A		±50		15Ω - 1MΩ		10Ω - 1MΩ				
	RN73T2B	125mW (1/8W)	±10	1KΩ - 250KΩ	100Ω - 250KΩ		84.5Ω - 250KΩ		150V	300V	
	RN73E2B		±25		15Ω - 1MΩ		10Ω - 1MΩ				
	RN73C2B		±50		15Ω - 1MΩ		10Ω - 1MΩ				
	RN73T2E	250mW (1/4W)	±10	1KΩ - 178KΩ	100Ω - 240KΩ			200V	400V		
	RN73E2E		±25		51Ω - 1MΩ		10Ω - 1MΩ				
	RN73C2E		±50		51Ω - 1MΩ	15Ω - 1MΩ				10Ω - 1MΩ	

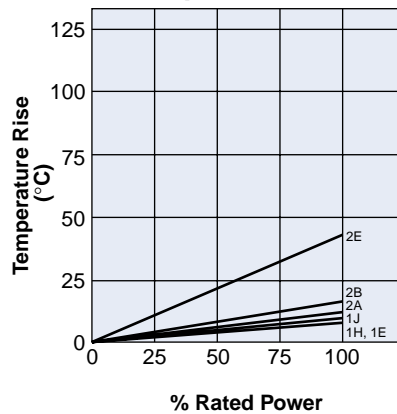
\* 1H and 1E sizes available in E-24 values only.  
 \*\* See Appendix D for available decade values.  
 \*\*\* +150°C operating temperature is available by special request.

**environmental applications**

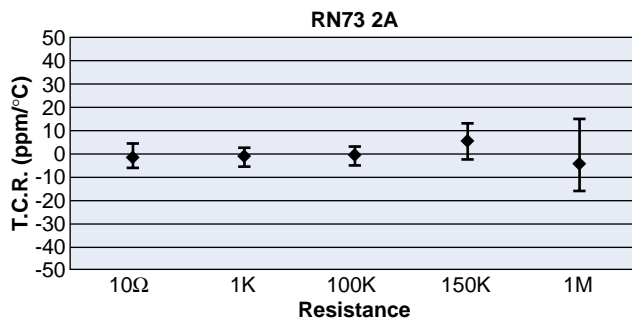
**Derating Curve**



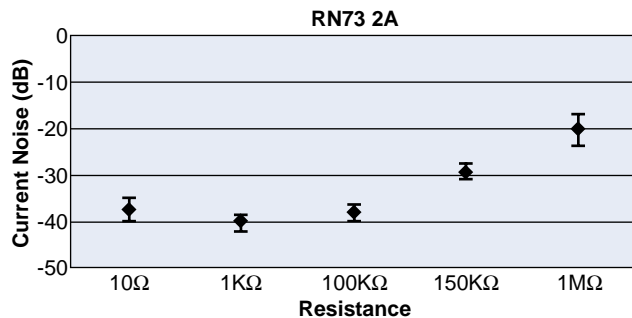
**Surface Temperature Rise**



**T.C.R. Characteristics**



**Noise Characteristics**



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

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