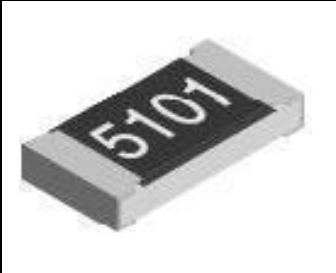


Product Family: [Precision Chip Resistor](#)

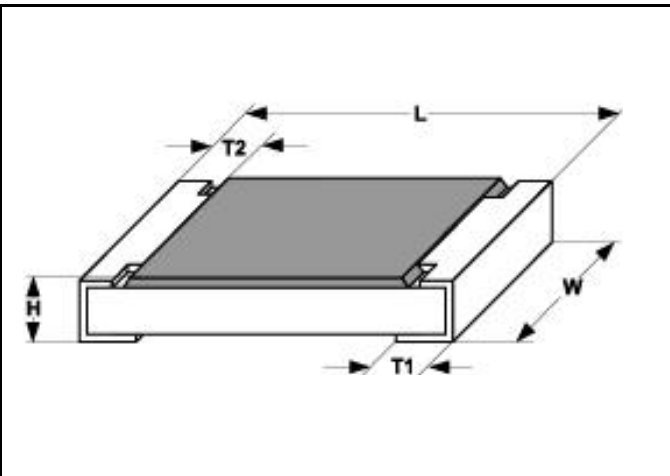
Part Number Series: [RN73 Series](#)

	<p>Construction:</p> <ul style="list-style-type: none"> • High Purity Alumina Substrate • Ni alloy thin-film resistive element • Wrap around electrodes • 100% matte tin over Ni terminations (RoHS compliant and Pb Free) 	<p>Features:</p> <ul style="list-style-type: none"> • 0805 size • TCR's of ± 5 ppm/$^{\circ}$C or ± 10 ppm/$^{\circ}$C • Resistances between $511\Omega \sim 100k\Omega$ • High volume production suitable for commercial and special applications
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Description:

These precision chip resistors offer excellent performance and tolerance in TCR, current noise, and linearity for high frequency circuit applications and other applications requiring precision and stability. High volume manufacturing allows for lower costs for the customer.

Product Dimensions:

	<table border="1"> <thead> <tr> <th>Dimension</th> <th>RN73 (0805)</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>0.079 \pm 0.008</td> </tr> <tr> <td>W</td> <td>0.049 \pm 0.008</td> </tr> <tr> <td>H</td> <td>0.016 \pm 0.004</td> </tr> <tr> <td>T1</td> <td>0.016 \pm 0.008</td> </tr> <tr> <td>T2</td> <td>0.016 \pm 0.008</td> </tr> </tbody> </table> <p>All dimensions are shown in inches, but use RN73 code when ordering as shown in the part numbering section. English case size is shown in parenthesis.</p>	Dimension	RN73 (0805)	L	0.079 \pm 0.008	W	0.049 \pm 0.008	H	0.016 \pm 0.004	T1	0.016 \pm 0.008	T2	0.016 \pm 0.008
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Part Numbering: Ex: RN73N2X2002B-*

Product Designator (English Size)	Temp. Coefficient of Resistance (TCR)	Power Rating	Resistance Value	Resistance Tolerance	T&R Packaging Quantity
RN73 (0805)	± 5 ppm/ $^{\circ}$ C (V) ± 10 ppm/ $^{\circ}$ C (N)	1/10 Watt (2X)	4 digits with the first 3 being significant. The last digit specifies the number of zeros.	$\pm 0.1\%$ (B) $\pm 0.5\%$ (D)	-T1 = 1,000 -T5 = 5,000 (see note)

* Note 1: Tape quantity codes can be left off when ordering or requesting quote. These will be assigned by us based on quantity ordered.

* Note 2: All part numbers will automatically have a "-LF" appended to the end of them to indicate RoHS compliance/Pb Free (RoHS 6/6). This will be automatically assigned by TFT. This part series is no longer available in non-RoHS.

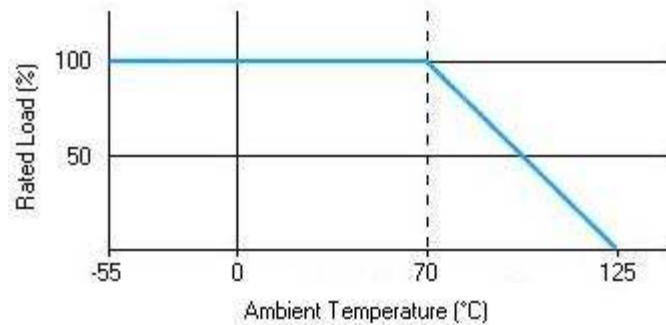
Examples:

Part Number	Size (English)	TCR	Resistance (ohms)	Tolerance	Tape Qty
RN73V2X2002B-*	2012 (0805)	± 5 ppm/ $^{\circ}$ C (V)	20,000 (2002) 4 digit	$\pm 0.1\%$ (B)	1,000 / 5,000
RN73N2X2002D-*	2012 (0805)	± 10 ppm/ $^{\circ}$ C (N)	499 (4990) 4 digit	$\pm 0.5\%$ (D)	1,000 / 5,000
RN73N2X2002B-*	2012 (0805)	± 10 ppm/ $^{\circ}$ C (N)	100 (1000) 4 digit	$\pm 0.1\%$ (B)	1,000 / 5,000

Electrical Specifications:

Type	RN73	
English Size	0805	
Metric Size	2012	
Power	1/10 Watt	
Tolerance% (code)	±0.1(B) or ±0.5(D)	
Resistance Range (Ω)	511~100k	100~100k
Resistance Offering	E-24, E-96 Values	
TCR ppm/°C (code)	±5 (V)	±10 (N)
Max Operating Voltage	100 V	
Operating Temp. Range	-55°C ~ 125°C	
Packaging	1,000pcs/reel or 5,000pcs/reel	

Power Derating Curve:



Reliability Specifications:

Test	Test Method	Specification
Short Time Overload	Applied voltage: 2.5X rated voltage or 2X maximum operating voltage, whichever is less. Test duration: 5 seconds	±0.5% +0.05Ω
Load Life	Test Temperature: 70°C Applied voltage: rated voltage Test period: 1000 hours with power cycling as follows: 90 min. power ON/30 min. power OFF,	±0.5% +0.05Ω
Moisture Load Life	Test Condition: 40°C/95% RH Applied voltage: rated voltage Test period: 1000 hours with power cycling as follows: 90 min. power ON/30 min. power OFF	±0.5% +0.05Ω
Temperature Cycle	Repeat 5 cycles as follows: -55°C(30 min.) / Room temp (2 min) / +125°C(30 min.) / Room temp (2 min)	±0.5% +0.05Ω