

## High Reliable Thin-Film Chip Resistors

### RN73H Series



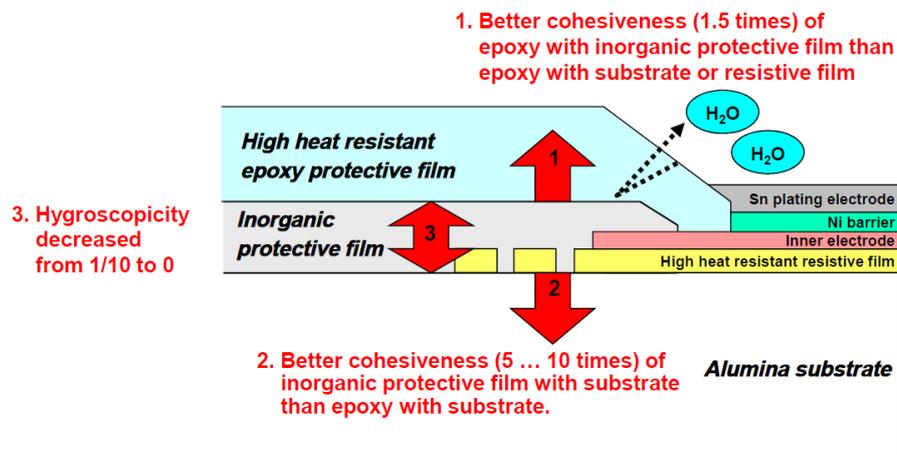
KOA's RN73H-series thin-film chip resistors have been designed to offer high precision resistor solutions for tough environments, especially in automotive and industrial applications.

The useable temperature range extends to +155 °C while the available tolerances are down to  $\pm 0.05\%$  and the best T.C.R. reaches as low as  $\pm 5$  ppm/K. A special protection layer in combination with a high heat resistant epoxy coating on top of the enhanced resistive element yields superior moisture stability.

### ■ Product Features

- Advanced moisture & high heat resistance
- Superior for anti-corrosion
- Additional inorganic passivation
- Low current noise, excellent linearity
- Higher stability over lifetime than thick film resistors
- High rated power at +85 °C
- Tight resistance tolerances down to  $\pm 0.05\%$
- Extremely low T.C.R. down to  $\pm 5$  ppm/K
- Standard sizes 0402, 0603, 0805, 1206 and 1210
- Operating temperature performance from -55 °C to +155 °C
- Produced under superior quality-controlled processes
- Reference Standards: IEC 60115-8, JIS C 5201-8, EIAJ RC-2133A
- AEC-Q200 tested, EU-RoHS and China-RoHS compliant
- Sulfur resistance verified according to ASTM B 809-95
- Lab Kits are available

### ■ Effect of Inorganic Protection



### ■ Datasheet



For more information, please contact:

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# High Precision Resistors



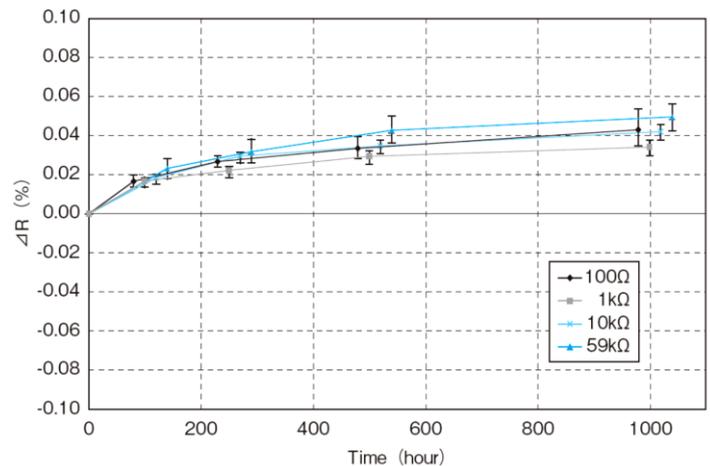
KOA's automotive grade thin film resistors from RN73H-series are intended to be used in most fields of professional electronics where high reliability and excellent stability is a major concern.

## Application Examples

- Automotive electronics
  - Engine ECU, HEV/BMS, EPB, EPS
- Industrial equipment
  - Control circuits, diagnostic devices
- Power grid
  - Power meter, power conditioner
- Medical equipment
- Scale, test & measuring equipment
- Automatic equipment controller
- Converters
- High precision voltage divider circuits
- etc.

## High temperature exposure

(RN73H2A, 0805, +155 °C, 1000 Hrs)



**NEW: Expanded Resistance Range**

## Ratings RN73H-series

Type	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. ( $\times 10^{-6}/K$ )	Resistance Range ( $\Omega$ ) E24 · E96 · E192					Max. Working Voltage	Max. Overload Voltage	
					A: $\pm 0.05\%$	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$			
1E <b>0402</b>	0.063W	85°C	90°C	<b>NEW</b> $\pm 5$	—	220~10k	—	—	—	50V	100V	
					—	47~100k	47~100k	47~100k	47~100k			
					—	47~300k	47~300k	47~300k	47~300k			
					—	47~300k	47~300k	10~300k	10~300k			
1J <b>0603</b>	0.1W	85°C	95°C	$\pm 5$	100~59k	100~59k	—	—	—	75V	150V	
					$\pm 10$	47~59k	47~360k	47~360k	47~360k			47~360k
					$\pm 25$	47~59k	15~1M	15~1M	10~1M			10~1M
					$\pm 50$	—	15~1M	15~1M	10~1M			10~1M
2A <b>0805</b>	0.125W	85°C	100°C	$\pm 5$	100~100k	100~100k	—	—	—	150V	300V	
					$\pm 10$	47~100k	47~1M	47~1M	47~1M			47~1M
					$\pm 25$	47~100k	15~1.5M	15~1.5M	10~1.5M			10~1.5M
					$\pm 50$	—	15~1.5M	15~1.5M	10~1.5M			10~1.5M
2B <b>1206</b>	0.25W	85°C	110°C	$\pm 5$	100~300k	100~300k	—	—	—	200V	400V	
					$\pm 10$	47~300k	47~1M	47~1M	47~1M			47~1M
					$\pm 25$	47~300k	15~1M	15~1M	10~1M			10~1M
					$\pm 50$	—	15~1M	15~1M	10~1M			10~1M
2E <b>1210</b>	0.25W	85°C	110°C	$\pm 10$	100~510k	100~510k	100~510k	100~510k	100~510k	200V	400V	
					$\pm 25$	51~510k	15~1M	15~1M	10~1M			10~1M
					$\pm 50$	—	15~1M	15~1M	10~1M			10~1M
					$\pm 100$	—	—	—	10~1M			10~1M

**Datasheet**



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