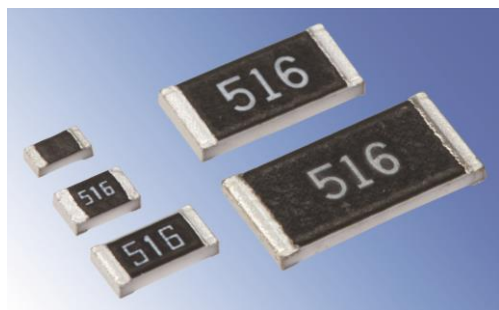


### HV73 Series



KOA's HV73 series is ideal for high voltage applications up to 3000 V (DC) while offering a very low resistance drift over the full voltage range.

The higher critical resistance allows a higher voltage at higher resistance values. The special coating ensures that higher voltages can be applied at operating temperatures up to +155 °C.



**Datasheet**

The HV73 is a special chip resistor designed for high working voltages, offering a higher working voltage than standard thick film devices. Excellent heat and moisture resistance are ensured by the use of metal glaze thick film. The series is available in sizes from 0603 to 2512 in the operating temperature range from -55 °C to +155 °C.

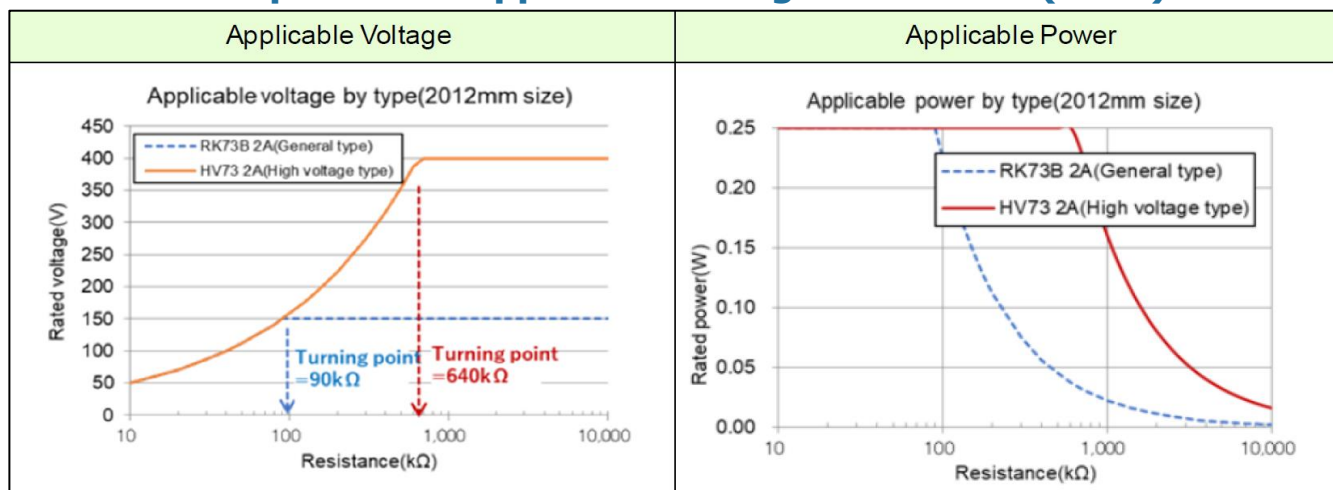
### Features

- High withstand voltage characteristic, 2.5times of general-purpose type
- Reduces number of components
- 3000 V(D.C.) working voltage
- 10 kΩ to 100 MΩ
- Anti-Sulfuration types available (HV73\_RT)
- EU-RoHS compliant

### Application Examples

- Power supplies
- Lighting ballasts
- Motor control
- Camera Flashlight
- AC Adapters
- LCD back-lights

### Comparison of Applicable Voltage and Power (0805)



### Ratings

Type	Size (inch)	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	Resistance Range	Resistance Tolerance	Max. Working Voltage	Max. Overload Voltage (DC)*1
<b>HV73 1J</b>	0603	0.1 W	+70 °C	+80 °C	10 kΩ ~ 10 MΩ	±1/±2/±5%	<b>350 V</b>	<b>500 V</b>
<b>HV73 2A</b>	0805	0.25 W		+100 °C	100 kΩ ~ 51 MΩ	±0.5/±1% ±2/±5%	<b>400 V</b>	<b>800 V</b>
<b>HV73 2B</b>	1206	0.25 W					<b>800 V</b>	<b>1000 V</b>
<b>HV73 2H</b>	2010	0.5 W		+90 °C	100 kΩ ~ 100 MΩ		<b>2000 V (DC)</b>	<b>3000 V</b>
<b>HV73 3A</b>	2512	1 W		+105 °C	43 kΩ ~ 51 MΩ	<b>3000 V (DC)</b>	<b>4000 V</b>	

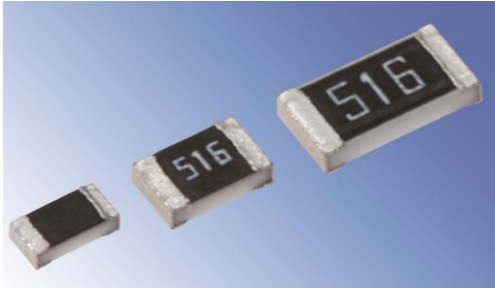
Operating Temperature Range: -55°C ...+155°C

\*1 Max. overload voltage is specified by D.C. voltage.

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## HV73V Series



KOA's high voltage HV73-series has been expanded with the addition of the new HV73V-types for automotive applications. The special inner material makes the part suitable for high voltages with improved temperature cycling stability compared to standard resistors. The higher critical resistance allows a higher voltage at higher resistance values. The special coating ensures that higher voltages can be applied at operating temperatures up to +155 °C.



**Datasheet**

Improved characteristics to withstand high voltages is achieved by using a special inner protective coating for the resistive element. Using high voltage resistors instead of a string of standard parts means that fewer parts are used in voltage detecting circuits and less PCB space is needed.

The HV73V-series is AEC-Q200 tested and recommended for high reliability automotive applications.

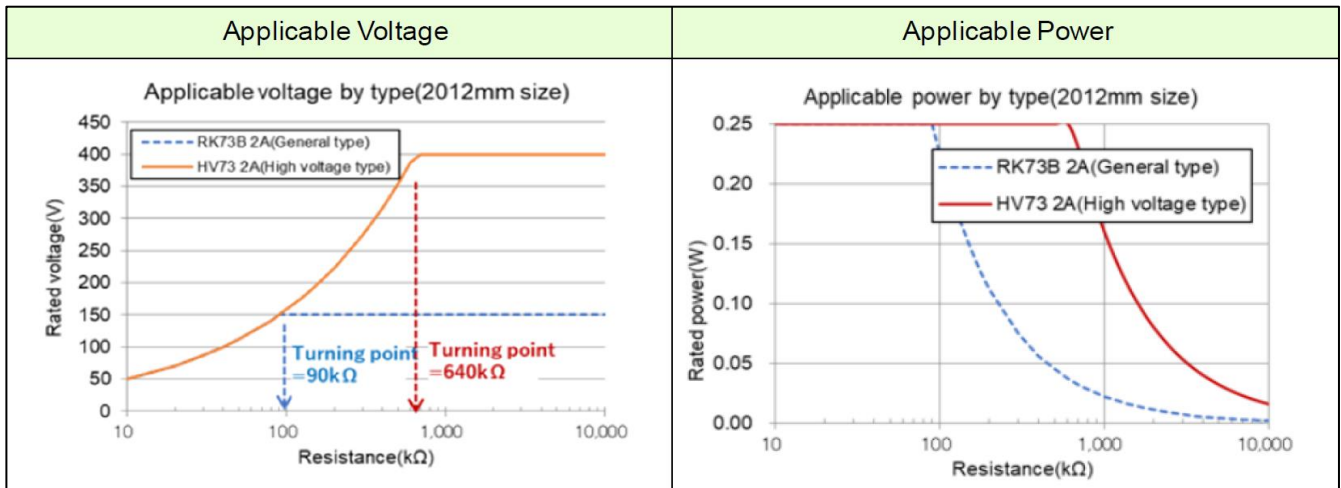
## Features

- High withstand voltage characteristic, 2.5times of general-purpose type
- Reduces number of components
- 10 kΩ to 51 MΩ
- Anti-Sulfuration types available (HV73V\_RT)
- EU-RoHS compliant
- Tested acc. to AEC-Q200 requirements

## Application Examples

- Battery module (Voltage monitoring, battery management circuit)
- Inverter module (Inverter circuit, DC-DC converter)
- Around circuits where regenerative voltage of motor is applied
- Voltage detection circuit of quick charger

## Comparison of Applicable Voltage and Power (0805)



## Ratings

Type	Size (inch)	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	Resistance Range	Resistance Tolerance	Max. Working Voltage	Max. Overload Voltage (DC)*1
HV73V 1J	0603	0.1 W	+70 °C	+80 °C	10 kΩ ~ 10 MΩ	±1/±2/±5%	<b>350 V</b>	<b>500 V</b>
HV73V 2A	0805	0.25 W		+100 °C	100 kΩ ~ 51 MΩ	±0.5/±1% ±2/±5%	<b>400 V</b>	<b>800 V</b>
HV73V 2B	1206	0.25 W		+115 °C			<b>800 V</b>	<b>1200 V</b>

Operating Temperature Range: -55°C ...+155°C

\*1 Max. overload voltage is specified by D.C. voltage.

Please contact KOA in case of special "Heat shock" termination (AT) style is needed.