

AEC-Q200 qualified, High Voltage Thick Film Chip Resistor for Automotive Applications



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.

NEW

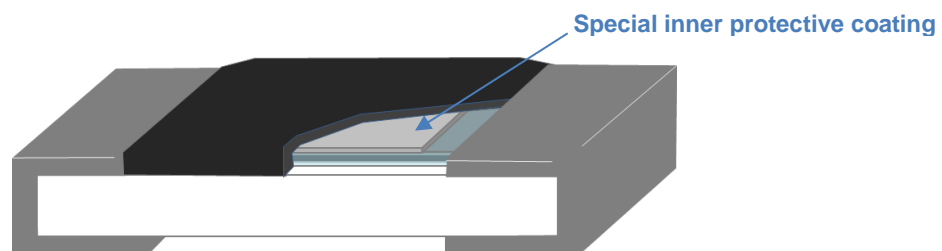
Increased power rating for HV73V2A (0805 = 0.25 W)

Increased max. working voltage for HV73V2B (1206 = 800 V)

KOA's new high voltage type chip resistor HV73V-series for automotive applications achieves max. working voltages 2.5 times higher than general-purpose type chip resistors. This means fewer resistors are used in voltage detecting circuits saving PCB space.

The HV73V is suitable for high reliability automotive applications.

■ Structure



Improved characteristics to withstand high voltages is achieved by using a special inner coating for the resistive element.

Product is adapted to the automotive standard AEC-Q200.

■ Product Features

- Thick film chip for high voltage
- 10 kΩ to 51 MΩ
- 0603, 0805 and 1206 inch
- ±0.5 %, ±1 %, ±2 % and ±5 %
- Operating temperatures up to +155 °C **NEW**
- Anti-Sulfuration types available (**HV73V_RT**)
- EU-RoHS compliant
- Tested acc. to AEC-Q200 requirements

■ Applications

- 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

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