

## Product Specification

Product:	<b>High-Voltage Resistor Paste</b>
Part Number:	<b>05H02 Series</b>

### Application Scope :

This product is suitable for high voltage resistor and high voltage focusing potentiometer.

### Usage Conditions :

Substrate	Alumina ceramics
Printing	200-250 mesh screen printing
Leveling	Let it level at room temperature for 5-15 minutes (adjust time based on actual leveling conditions).
Drying	Bake in a ventilation oven at 100-150°C for 10-15 minutes (if the baking temperature is below 300°C, the baking time may be adjusted based on actual conditions).
Firing Condition	The sintering temperature is 850±2°C (recommended value) and the sintering time is 9-11 minutes.
Thinner	ST1000, ST1001

### Characteristics :

#### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	≤8μm	FOG test
2 Viscosity	100-200Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, 10 rpm, with adjustable viscosity at 25±1°C according to user requirements.

#### 2. Characteristics After Curing :

Under the 1-sintering condition, the film thickness is 8-12 μm.

Check fired film produced under the conditions specified in 1) , (Film thickness is 8-12μm.)

Characteristics	Standard	Test Method And Conditions
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3	Appearance	Compact and dense	Eyeballing
4	Resistivity	As below form	Standard film thickness: 10 μm
	Temperature Coefficient (TCR)	As below form	HTCR 25-125°C, CTRC 25- -55°C
	ESD	As below form	R/□≤100K: 1000V 1s 5 次; R/□>100K: 2000V 1s 5 次
	Voltage Coefficient (VCR)	As below form	50-500v; 20-200v(100K/□)
	STOL	As below form	Power density: 0.175 W/mm <sup>2</sup> , 1 hour, 500 V/mm
	High Voltage Load Stability	As below form	40°C 1000V/mm 2h

Product NO	Square Resistance (Ω/□)	Tolerance (Ω/□)	Main Compositions	TCR (ppm/°C)	ESD (%)	Firing Temp (°C)
05H02-102	1K	±15%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>	±150		850
05H02-103	10K	±15%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-104	100K	±15%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-105	1M	±15%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-106	10M	-30%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-107	100M	-30%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>	-300-100		
05H02-108	1G	-30%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-109	10G	-30%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			
05H02-1010	100G	-30%	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>			

**Save Conditions And Validity Period :**

The product shall be stored in a sealed container at an ambient temperature of 5-25°C, with a shelf life of six months from the date of shipment.

**Packaging Method :**

1000g/can