



## Product Specification

Product:	<b>Aluminum Nitride (AlN) Resistor Paste</b>
Part Number:	<b>05H08 Series</b>

### Application Scope :

The product is suitable for the application of aluminum nitride substrate thick film circuit.

### Usage Conditions :

Substrate	Aluminium nitride 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, operating at 10 rpm, with viscosity adjustable to 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
3	Appearance	Compact and dense	Eyeballing
4	Resistivity	As below form	Standard film thickness: 10 $\mu\text{m}$
	Temperature Coefficient (TCR)	As below form	HTCR 25-125°C

Product Line		Thick-Film Circuit Resistor Paste			
Product NO	Square Resistance ( $\Omega/\square$ )	Tolerance %	Main Compositions	TCR (ppm/ $^{\circ}\text{C}$ )	Low Temperature Tolerance (%)
05H08-1R0	1	$\pm 15\%$	Ag、Pd、RuO <sub>2</sub>	-100~250	$\pm 2.5$
05H08-2R0	2	$\pm 15\%$	Ag、Pd、RuO <sub>2</sub>	-100~250	$\pm 2.5$
05H08-5R0	5	$\pm 15\%$	Ag、Pd、RuO <sub>2</sub>	-100~250	$\pm 2.5$
05H08-011	10	$\pm 15\%$	Ag、Pd、RuO <sub>2</sub>	-100~250	$\pm 2.5$
05H08-021	20	$\pm 15\%$	Ag、Pd、RuO <sub>2</sub>	-100~250	$\pm 2.5$
05H08-051	50	$\pm 15\%$	RuO <sub>2</sub>	-150~150	$\pm 1.5$
05H08-101	100	$\pm 15\%$	RuO <sub>2</sub>	-150~150	$\pm 1.0$
05H08-501	500	$\pm 15\%$	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>	-300~0	$\pm 1.0$
05H08-102	1K	$\pm 15\%$	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub>	-300~0	$\pm 1.0$

**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