

R900R

Resistor

Description

The R900R Series Resistor is a stable, low TCR system calibrated on C5789 Au Conductor. The key to this system is its high operating temperature. Stable resistance values are possible at an operating temperature range of 300 – 400 °C. A TCR of 100 ppm is standard for all values at room temperature. This series gives a dense fired film and can be laser trimmed. IP9150HTB, high temperature dielectric can be used as a resistor overglaze.

Key Features

- Stable resistance at the 300 – 400 °C operating range
Good thermal aging properties Calibrated on C5789 Au conductor Low TCR at elevated temperatures Laser trimmable

Typical Properties

Viscosity	1700 – 2300 poise, Brookfield HBT, Spindle #6 @ 10 rpm, 25°C
Blendable	No
Coverage	
Resistance Range	100 Ω/sq to 10 kΩ/sq
Blendable Series	No
Overglaze	
Laser Trim	Yes

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Recommended Processing Guide

Printing Parameters	250 – 280 stainless steel mesh screen 0.5 mil emulsion
Printing Speed	
Leveling	
Drying Temperature	150 °C for 8 - 10 minutes
Process Temperature (TDS)	950 °C peak temperature, 6 – 8 minutes dwell time
Film Thickness	Dried: 21-25 microns Fired: 10-17 microns
Recommended Thinner	Heraeus RV-372

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

Storage

Store in a dry location at 10 – 30°C. DO NOT REFRIGERATE. Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

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