



# Supertech Electronic Co., Ltd.

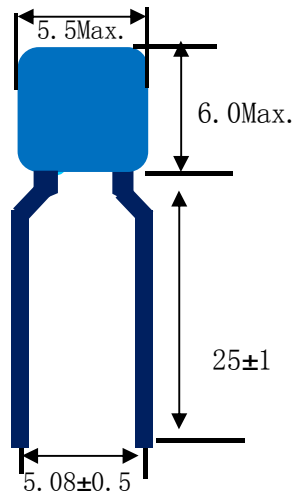
## Specification for Approval

**Product: Multilayer Ceramic Capacitor**

**Part No.: RD20W105K1HH5L**

**Description: Radial, 1UF 50V X7R  $\pm 10\%$  P=5.08mm BULK**

Dimension: mm



### Specification:

Operating Temperature Range:  $-55\text{ }^{\circ}\text{C} \sim +125\text{ }^{\circ}\text{C}$

Temperature Coefficient:  $\pm 15\%$

Capacitance: **Within the specified tolerance,  $\pm 10\%$ .**

Rated Working Voltage: **50V**

Dielectric Strength: **250% of rated voltage for 5 Sec. With 50mA Max.**

Insulation resistance(IR) at  $25\text{ }^{\circ}\text{C}$ : **100G $\Omega$  or 1000M $\Omega$  whichever is less.**

Dissipation Factor at  $25\text{ }^{\circ}\text{C}$  1KHz, 1Vrms: **2.5% Max.**

Life Test : 1000 hours at Max. temperature with 200% rated voltage:

Change of Capacitance:  **$\leq \pm 10\%$ .**

Dissipation Factor:  **$\leq 150\%$  of initial**

Insulation Resistance:  **$\geq 25\%$  of initial**

Humidity Test: 500 hours, at  $40 \pm 2$  degree C, 90~95%RH

Change of Capacitance:  **$\leq \pm 10\%$ .**

Dissipation Factor:  **$\leq 150\%$  of initial**

Insulation Resistance:  **$\geq 25\%$  of initial**

Capacitance Ageing: **1.5% / decade hour**

APPROVED BY

*Sally Hsu*

