

## CGBA Mica Paper Capacitor: High temperature,high voltage



### Feature:

- ◆ Using the best mica paper 511 as material,dipping high temperature epoxy resin.
- ◆ As the high insulated resistance,low coefficient,good high frequency performance.
- ◆ Very low dissipation factor  $<5 \times 10^{-3}$  (min  $1 \times 10^{-4}$ ).
- ◆ Very stable at high temperature, small capacitance tolerance.
- ◆ After storage 15years, capacitance change not over  $\pm 1\%$ .

### Application:

- ◆ JINPEI CGBA series mica pcapacitors are suitable to high frequency,high voltage,high temperature,big current circuit. Like high frequency feedback circuit,high frequency resonance circuit and pulse circuit etc.
- ◆ Widely use in satellite,aerospace,ship,medical equipment,oil down-hole equipment, welding machine,metallurgy equipment etc.

### General Characteristics

- ◆ Temperature Range:  $-55^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- ◆ Capacitance Tolerance:  $\pm 3\%, \pm 5\%, \pm 10\%$
- ◆ Relative Humidity: at  $+40^{\circ}\text{C}$  can be 95~98%
- ◆ Atmospheric pressure:  $4 \times 10^4 \text{Pa}$
- ◆ Vibration: frequency 20~200Hz, acceleration: 2.7~4.5g
- ◆ Working voltage: 0.45KV~30KV
- ◆ DC test voltage: After keep 1 hour at  $+150^{\circ}\text{C}$ ,loading 1.5times working voltage 1 minute,no breakdown and flashover.
- ◆ Insulation resistance(R): normal climate
  - Capacitance  $C \geq 0.1\mu\text{F}$      $R \geq 1000\text{M}\Omega$
  - Capacitance  $C < 0.1\mu\text{F}$      $R > 5000\text{M}\Omega$

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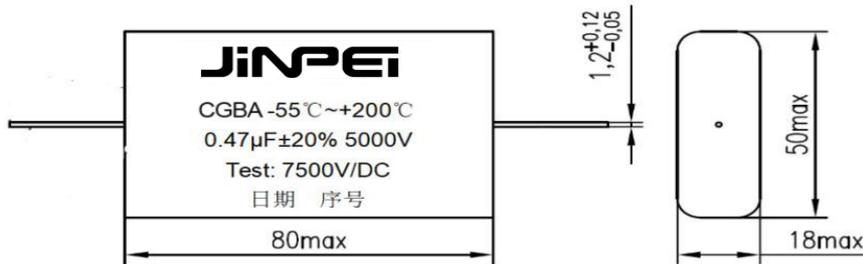


**Temperature characteristics:**

- ◆ After keep at +200 °C 1 hour, capacitance change not over ±10%, Insulation resistance  $R > 500\text{M}\Omega$ , Dissipation factor:  $\text{tg}\delta \leq 5 \times 10^{-3}$  (1KHz), Pass D.C. rated voltage test.
- ◆ After keep at -55 °C 1 hour, capacitance change not over ±7%, Insulation resistance  $R > 500\text{M}\Omega$ , Dissipation factor:  $\text{tg}\delta \leq 5 \times 10^{-3}$  (1KHz), Pass D.C. rated voltage test.
- ◆ After keep at +40 °C, relative Humidity 95~98% 48 hours, capacitance change not over ±5%, Insulation resistance  $R > 500\text{M}\Omega$ , Dissipation factor:  $\text{tg}\delta \leq 5 \times 10^{-3}$  (1KHz), Pass D.C. rated voltage test.
- ◆ After keep at +195 °C ~ +200 °C 96 hours, capacitance change not over ±10%, Insulation resistance  $R > 500\text{M}\Omega$ , Dissipation factor:  $\text{tg}\delta \leq 6 \times 10^{-3}$  (1KHz), Pass D.C. rated voltage test.
- ◆ After vibration test, capacitance change not over ±5%

Part Number	Capaitance (μF)	Working Voltage (KV/DC)
CGBA-A	0.47	3 3U
	0.47	0.25 2E
	0.047	2 2D
	0.033	0.25 2E
CGBA-B	3.3	3 3U
	0.1	4 3G
CGBA-C	0.022	4 3G

DRAWING (Dimensions in mm)



**PART NUMBER EXAMPLE**

