



GTCVG 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 1×10^{-4}).
- ◆ Very stable at high temperature, small capacitance tolerance.
- ◆ After storage 15years, capacitance change not over $\pm 1\%$.

Application:

- ◆ Our GTCVG 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 $C < 0.1\mu\text{F}$ $R > 5000\text{M}\Omega$



Temperature characteristics:

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

Part Number	Capaitance (μF)	Working Voltage (KV/DC)
CVG-1	0.47	3
	0.47	0.25
	0.047	2
	0.033	0.25
CVG-2	3.3	3
	0.1	4
CVG-3	0.022	4

DRAWING (Dimensions in mm)

