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 <$5x10^{-3}$ (min $1x10^{-4}$).
- Very stable at high temperature, small capacitance tolerance.
- After storage 15years, capacitance change not over ±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℃～+200℃
- Capacitance Tolerance: ±3%,±5%,±10%
- Relative Humidity: at +40℃ can be 95~98%
- Atmospheric pressure: $4x10^4$Pa
- Vibration: frequency 20~200Hz, acceleration: 2.7~4.5g
- Working voltage: 0.45KV~30KV
- DC test voltage: After keep 1 hour at +150℃,loading 1.5times working voltage 1 minute,no breakdown and flashover.
- Insulation resistance(R): normal climate

  Capacitance C ≥ 0.1μF R≥1000MΩ

  Capacitance C＜ 0.1μF R＞5000MΩ

Temperature characteristics:

- After keep at +200℃ 1 hour,capacitance change not over ±10%, Insulation resistance R＞500MΩ, Dissipation factor: tgδ≤5×10^{-3}(1KHz), Pass D.C. rated voltage test.
- After keep at -55℃ 1 hour,capacitance change not over ±7%, Insulation resistance R＞500MΩ, Dissipation factor: tgδ≤5×10^{-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＞500MΩ,Dissipation factor: tgδ≤5×10^{-3}(1KHz), Pass D.C. rated voltage test.
- After keep at +195℃~+200℃ 96 hours, capacitance change not over ±10%, Insulation resistance R＞500MΩ,Dissipation factor: tgδ≤6×10^{-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)