



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 CVG 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: $-55^{\circ}\text{C} \sim +175^{\circ}\text{C}$
- ◆ 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: 2500V
- ◆ 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 $C < 0.1\mu\text{F}$ $R > 5000\text{M}\Omega$

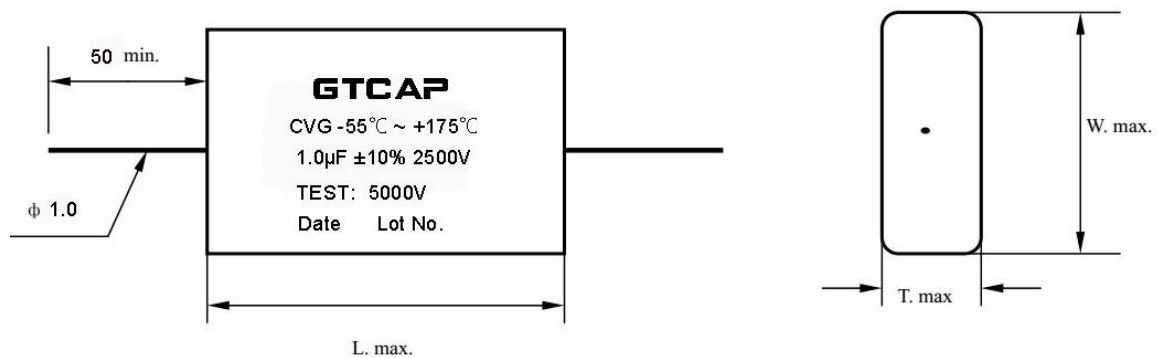


Temperature characteristics:

- ◆ After keep at +175℃ 1 hour, capacitance change not over $\pm 10\%$, 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℃ 1 hour, capacitance change not over $\pm 7\%$, 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℃, relative Humidity 95~98% 48 hours, capacitance change not over $\pm 5\%$, 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℃~+200℃ 96 hours, capacitance change not over $\pm 10\%$, 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 $\pm 5\%$

Part Number	Capaitance (μF)	Working Voltage (V/DC)	Test Voltage (V/DC)	Dissipation Factor Max.
GTCVG-1 μF 2500V-K	1.0	2500	5000	0.5%

Dimensions: unit: mm



L Max.	W Max.	T Max.	Terminals
83mm	48mm	20mm	Axial wire leaded