



## 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  $1 \times 10^{-4}$ ).
- ◆ 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  $C < 0.1 \mu\text{F}$   $R > 5000 \text{M}\Omega$

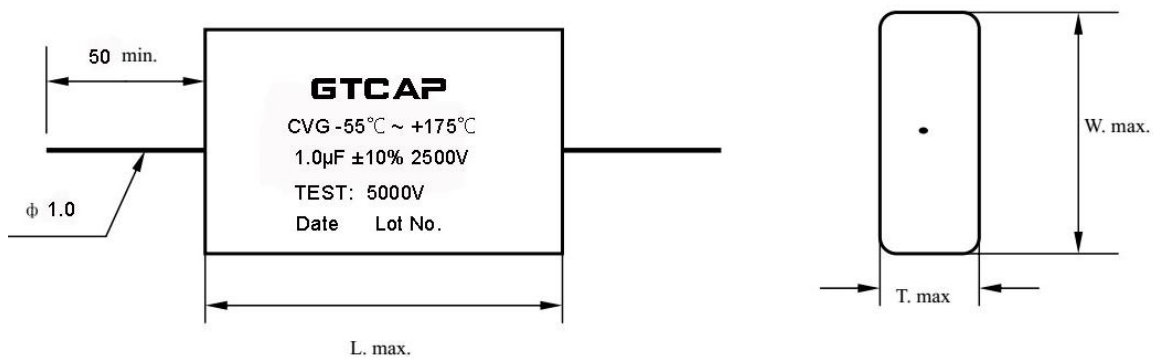


**Temperature characteristics:**

- ◆ After keep at +175°C 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°C 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°C, 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°C ~ +200°C 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 (V/DC)	Test Voltage (V/DC)	Dissipation Factor Max.
GTCVG-1 μ F2500V-K	1.0	2500	5000	0.5%

**Dimensions:** unit: mm



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