

Shanghai Green Tech Co.,Ltd.

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°C~+200°C
- ◆ Capacitance Tolerance: ±3%,±5%,±10%
- ◆ Relative Humidity: at +40 °C can be 95~98%
- Atmospheric pressure: 4x10⁴Pa
- ♦ Vibration: frequency 20~200Hz, acceleration: 2.7~4.5g
- Working voltage: 0.45KV~30KV
- ◆ DC test voltage: After keep 1 hour at +150°C,loading 1.5times working voltage 1 minute,no breakdown and flashover.
- Insulation resistance(R): normal climate

Capacitance C ≥ 0.1μF R≥1000MΩ

Capacitance C < 0.1 μ F R > 5000 M Ω





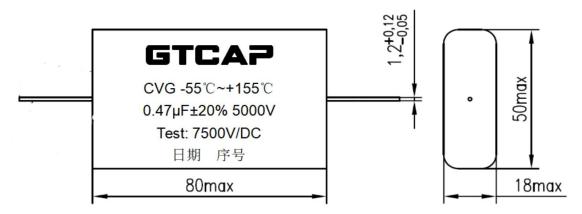
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Temperature characteristics:

- After keep at +200 °C 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°C 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°C, 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°C~+200°C 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)



GTCAP®