

Damping and absorption capacitor

YZPST-2kVDC-0.25 μ F

Technical Specification

1. Product Usage

This product is mainly used to semi-conduct switching ,protection, filter and storage energy in the power electrical device.

2. Product features

2.1 Features: The capacitor contains high-quality polypropylene film and low temperature insulation impregnant, none PCB. Electrodes are made of special aluminum foil for electronic; Adopt non-inductive roll artwork. Bear transient heavy current and HV impulse without capacitance loss. low dissipation,well sealed, good heat dissipation, long life-time, anti-explosion and high security.

2.2 Appearance: Frosted aluminium oxide housing,good look. The features of anti-corrosive PET label, no peel-off, no color fading, small size, light weight, and easy installation and etc.

3. Technical parameter

3.1 Main parameter

3.1 Under natural air to cool down: The maximum temperature of the operating capacitor housing is 70°C

3.2 Elevation: $\leq 1000\text{m}$

3.3 Relative humidity: $\leq 95\%$

3.4 Rated Voltage: $U_N=2\text{kVDC}$

3.5 fundamental frequency: 50Hz

3.6 rated capacity: $C_N=0.25\mu\text{F}$

3.7 Capacity Tolerance within $\pm 10\%$

3.8 Tangent of the loss angle of a capacitor $\tan\delta(1\text{kHz})\leq 0.0005$

3.9 Insulation resistance: $RC\geq 3000\text{S}$

3.10 Terminal test voltage: $U_{TTDC}=4\text{kVDC}$, 10S

3.11 Voltage between terminal and housing: $U_{TTDC}=5\text{kVDC}$, 10S

3.12 Housing: Cylindrical aluminum housing

3.13 Sealing test: No leakage in 4 hours under rated temperature of $75^\circ\text{C}\pm 5^\circ\text{C}$

3.14 Discharge test between terminals: 1.1 U_N voltage, 10s bear 20 times DC

charging and discharging in polarity, Without breakdown and capacitance loss.

3.2 overload

The capacitor can runs as per below form, in which the overvoltage of above

1.1Un is based on no obvious reduction of capacitor's life time.

| OverVoltage | The longest duration time in one day | Remark |
|--------------------|--------------------------------------|-------------------|
| 1.1U _N | The overload time 30% | system adjustment |
| 1.15U _N | 30min | |
| 1.2U _N | 5min | |
| 1.3U _N | 1min | system switch |
| 1.5U _N | 100ms | |

Table 1: Power frequency overvoltage

4. Fit condition

4.1 In-house installation usage

4.2 Installation location elevation $\leq 1000\text{m}$

4.3 Ambient humidity less than 85%

4.4 Temperature category: $-40/\text{D}$

4.5 The capacitor long running temperature less than 55°C

4.6 No strong metal corrosive steam or air in the surrounding.

4.7 No intense mechanical shaking, no explosion or inflammable materials

4.8 Installation should avoid high magnetic field

Product drawing:

