

ZEASSETSHENZHENZEASSET ELECTRONIC
TECHNOLOGY CO. LTD.

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Engineering

NO.:ZS220901897

Customer: PLATAN

1. Description

| | |
|--|--|
| Part Number | TGG103M761432VW |
| Item | |
| Series | TG |
| Operating Temperature | -40~85℃ |
| Working Volts U_R | 400V _{DC} |
| Surge Volts | 450V _{DC} |
| Capacitance@120Hz@25℃ | 10000μF |
| Tolerance | -20~+20% |
| Leakage Current I_{leak} @25℃,5min. at U_R | 5000μA |
| $\tan\delta$ @120Hz@25℃ | 0.15max |
| ESR _{typ} @120Hz@25℃ | 22mΩ |
| Z_{typ} @10KHz@25℃ | 20mΩ |
| Rated Ripple Current I_{-R} @120Hz,85℃ | 19Arms |
| Useful life: @85℃ U_R ; I_{-R} :15000h | After test: $\Delta C/C \leq \pm 20\%$ of initial value $\tan\delta \leq 2 \times$ initial spec. limit $I_{leak} \leq$ initial spec. limit |

Multiplier for ripple current

Frequency Coefficient

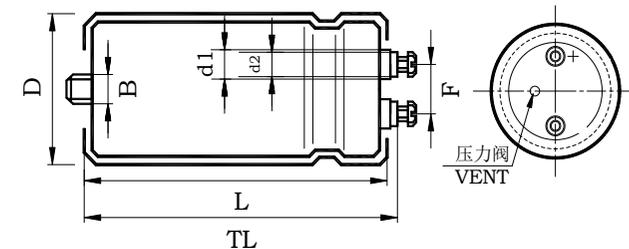
| | | | | | |
|---------------|-------|---------|------|------|------------|
| Frequency(Hz) | 50/60 | 100/120 | 300 | 1K | $\geq 10K$ |
| Coefficient | 0.8 | 1.00 | 1.10 | 1.30 | 1.40 |

Temperature Coefficient

| | | | |
|-----------------|------|------|------|
| Temperature (℃) | +40 | +60 | +85 |
| Coefficient | 1.89 | 1.67 | 1.00 |

Insulation: PVC-Black

2. Dimensional Drawings



Unit:mm

| D±1.8 | L+3 | TL±2 | d1±0.5 | d2±0.5 | F±1 | B | Terminal Thread |
|-------|-----|------|--------|--------|------|--------|-----------------|
| 76 | 143 | 148 | 13.0 | 13.0 | 31.4 | M12×16 | M5 |

3. Special instructions

Special Requirements: No

| | | |
|-----------------|----------------|-------------|
| <u>Revision</u> | <u>Changes</u> | <u>Date</u> |
| 0 | Original | 01/09/2022 |

Drafter by: Yanlin LeiApproved by: Cuihua LinDate:01/09/2022

Product safety

The table below summarizes the safety instructions that must be observed without fail.

| Topic | Safety Information |
|--|---|
| Polarity | Make sure that polar capacitors are connected with the right polarity. |
| Reverse voltage | Voltages polarity classes should be prevented by connecting a diode. |
| Upper category temperature | Do not exceed the upper category temperature. |
| Maintenance | Make periodic inspections of the capacitors. Before the inspection, make sure that the power supply is turned off and carefully discharge the electricity of the capacitors. Do not apply any mechanical stress to the capacitor terminals. |
| Mounting position of screw terminal capacitors | Do not mount the capacitor with the terminals (safety vent) upside down. |
| Mounting of single-ended capacitors | The internal structure of single- ended capacitors might be damaged if excessive force is applied to the lead wires. Avoid any compressive, tensile or flexural stress. Do not move the capacitor after soldering to PC board. |
| Robustness of terminals | The following maximum tightening torques must not be exceeded when connecting screw terminals: M5: 3 Nm M6: 6 Nm |
| Soldering | Do not exceed the specified time or temperature limits during soldering. |

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Product safety

| Topic | Safety Information |
|---|---|
| Soldering, cleaning agents | Do not allow halogenated hydrocarbons to come into contact with aluminum electrolytic capacitors. |
| Passive flammability | Avoid external energy, such as fire or electricity. |
| Active flammability | Avoid overload of the capacitors. |
| Breakdown strength of insulating sleeves. | Do not damage the insulating sleeve, especially when ring clips are used for mounting. |