

**ZEASSET**SHENZHEN ZEASSET ELECTRONIC  
TECHNOLOGY CO. LTD.

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Engineering

NO.:ZS220624635

Customer: Platan

## 1. Description

Item	Part Number	TGG152M51080YVA	TGG222M51105YVA
Series		TG	TG
Operating Temperature		-40~85°C	-40~85°C
Working Volts $U_R$		400V <sub>DC</sub>	400V <sub>DC</sub>
Surge Volts		450V <sub>DC</sub>	450V <sub>DC</sub>
Capacitance@120Hz@25°C		1500μF	2200μF
Tolerance		-20~+20%	-20~+20%
Leakage Current $I_{leak}$ @25°C,5min. at $U_R$		5000μA	5000μA
$\tan\delta$ @120Hz@25°C		0.15max	0.15max
$ESR_{typ}$ @120Hz@25°C		45mΩ	30mΩ
$ESR_{max}$ @120Hz@25°C		67 mΩ	45mΩ
Rated Ripple Current $I_{-R}$ @120Hz,85°C		6.0 Arms	8.0Arms
Useful life: @8 5 °C $U_R$ ; $I_{-R}$ :12000h		After test: $\Delta C/C \leq \pm 30\%$ of initial value $\tan\delta \leq 3 \times$ initial spec. limit $I_{leak} \leq$ initial spec. limit	

Multiplier for ripple current

Frequency Coefficient

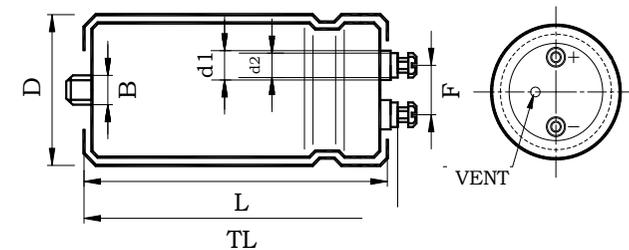
Frequency(Hz)	50/60	100/120	300	1K	$\geq 10K$
Coefficient	0.80	1.00	1.10	1.30	1.40

Temperature Coefficient

Temperature (°C)	+40	+60	+85
Coefficient	1.89	1.67	1.00

Insulation: PVC-Black

## 2. Dimensional Drawings



Unit:mm

D±1.0	L+3	TL±2	d1±0.5	d2±0.5	F±1	B	Terminal Thread
51	80	86.5	13.5	10.0	22	M12×16	M5
51	105	111.5	13.5	10.0	22	M12×16	M5

## 3.Special instructions

Special Requirements: No

Revision	Changes	Date
0	Original	24/06/2022

Drafter by: Yanlin LeiApproved by: Cuihua LinDate: 24/06/2022

**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.