CD110 Series

Item Name	Rating	Case size	
CD1102G680M	400V68uF	D18X26L ±1.5	

1. Operating Temp. Range

-40+105℃

2. Electrical Characteristics

See Table 1.

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Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (µF)	Tolerance on Capacitance (%) 20°C 120Hz	Dissipation Factor (tanō) max 20℃ 120Hz	Leakage Current 2min. 20 °C(µA)	Permissible Ripple Current (mArms) 105°C120Hz	Impedance (Ω) 100KHz 20°C
400	450	68	±20%	0.20	559	400	/

3. Dimensions



4. Marking

Following items are printed with white colour on black colour sleeve Example of Marking



- Rated Voltage & Nominal Capacitance
- ② Polarity (negative)
- ③ Trade Mark of CH
- ④ Product Series
- (5) Operating Temp. Range

5. MULTIPLIER FOR RIPPLE CURRENT

①. Frequency Coefficient

Ereq.(Hz) Cap(µF)	50Hz	120Hz	300Hz	1KHz	10KHz
68	0.8	1	1.25	1.34	1.5

②. Temperature Coefficient

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	Ambient	40	00	70	05	405
	Temperature(°C)	40	60	70	85	105
	Coefficient	2.4	2.1	1.78	1.65	1

6. Characteristics

No.	ltem	Performance	Test Method	
1	Leakage Current	l≤ 559µA	Protection Resistor: 1000±10Ω Applied Volt: Rated Voltage Measuring time: 2 minutes	
2	Static Capacitance	±20%	Measured Frequency: 120Hz±20% Measured Voltage: ≤ 0.5Vrms, 1.5 ~ 2.0VDC	
3	Dissipation Factor (tanδ)	0.20 and Under	Same as condition of Capacitors	
4	Load Life	Leakage Current≤ the value specified in Table 1Cap. Change≤±20% of initial valueDissipation Factor≤200% of value specified in Table 1AppearanceNo remarkable abnormality	Test condition: 105±2°C 120Hz Applied voltage: Rated voltage Applied Ripple Current: 400mArms Test Time: 2000 +72, -0 hours	
5	Shelf Life	Leakage Current≤ the value specified in Table 1Cap. Change≤±20% of initial valueDissipation Factor≤200% of value specified in Table 1AppearanceNo remarkable abnormality	Test Temp. : 105±2°C No voltage applied Test Time 1000 hours +24, -0 hours	
6	Terminal Strength	Tensile Strength45N {4.5kg}Bending Strength25N {2.5kg}	Keeping time Tensile: 1 ~ 5 sec Bending: 30±5 sec	
7	Impedance Ratio	Z(-25°C) /Z(+20°C) 6 Z(-40°C) /Z(+20°C) 0		
8	Temperature Characteristics	StageItemPerformance2,3Impedance Ratioless than the value mentioned in 6-75Cap. Change $\leq \pm 25\%$ against value in stage 4After the capacitor is held at temperature of each stage and reaches temperature stability, measure performance.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
9	Surge Voltage	ItemPerformanceLeakage Current \leq the initial specified valueCap, Change $\leq \pm 15\%$ against value before testDissipation Factor \leq the initial specified valueAppearanceNo remarkable abnormality	Test Temp.: $15 \sim 35^{\circ}$ C Test volt.: Surge Volt. Specified in 2 Voltage apply 1,000 times of charge for 30 ± 5 sec, under frequency of 6 ± 0.5 sec, and discharge for 5min 30sec.	
10	Vibration Resistance	CapacitanceStability requiredCap. Change≤±5% of the initial specified valueAppearanceNo remarkable abnormality	Frequency: 10 ~ 55Hz Width of vibration: 1.5mm Direction and duration: X,Y and Z directions, each for 2 hours	
11	Solderbility	3/4 area of surrounding directions of surface should be covered with new solder.	Solder: Sn-Ag, Sn-Cu Type Soldering Temp: 240±5°C Dipping degree: 2 ~ 2.5mm Flux: Ethanol solution (JIS K8101) or Isopropylalchol (JIS K8839) solution of Rosin (JIS K5902)	
12	Resistance to Soldering	Leakage Current \leq the initial specified valueCap, Change $\leq \pm 15\%$ against value before testDissipation Factor \leq the initial specified valueAppearanceNo remarkable abnormality	Soldering Temp. 280±5°C Soldering Time . 10±1sec.	

6-2. Characteristics

No.	ltem		Performance	Test Method
13	Resistance to Humidity	Leakage Current Cap. Change Dissipation Factor Appearance	 ≤ Initial specified value ≤±15% of initial value ≤ Initial specified value No remarkable abnormality 	Test Temp. : $40\pm2^{\circ}$ C Humidity 90 ~ 95% Test Time : 500 ± 8 hours After the above condition, restored to normal temp, and then measured.
14	Pressure valve moment characteristics	Pressure valve open safely. There must be nothing ignition or scattering from product.		DC method: Apply an reverse current of 1A to impress the reverse voltage until pressure valve open.

7. **Packing method**

Packaging shape, size, quantity



Component size	D18X26L ±1.5		
Quantity per case	PCS		
Symbol of box	Y-2		
L	480		
Н	320		
W	320		

Related Standards: JIS C 5141 8 9

- Marking on packing box
 - 1 Item name
 - ② Series name
 - ③ Rated Voltage
 - ④ Nominal Static Capacitance
 - (5) Case size
 - 6 Lot No.
 - ⑦ Quantity

10 Soldering

10-1 Soldering by soldering iron

Temperature of iron top : 270~350°C

Operating time : within 3 sec.

10-2 Flow soldering.

Preheat : PCB surface temperature 120°C±5°C

Solder temp.: 260°C±5°C Solder dipping time: $2 \sim 4 \text{sec.}$

11 Cleaning of PC board after soldering

Some solvents is acceptable but make sure following condition: Solvent:

IPA or Alcoholic agent like Pinealpha ST-100S, Cleanthrough 750H, 750L, 710M, 750K, or Technocare FRW-14~17

- ① Cleaning should be made by ultrasonic within 5min, at the temperature less then 60°C.
- Control of pollution is necessary.
- ③ Keep away from cleaning agent. Please do not store in air-tight container.

Dry it by hot air, keep the temperature of air less than maximum operating temp.

单击下面可查看定价,库存,交付和生命周期等信息

>>KINGTOP(勤拓)