Dongguan Xuansn Electronic Tech Co.,Ltd

PRODUCT SPECIFICATION

To： AURORAEVERNET

CATEGORY： Aluminum electrolytic capacitor

DESCRIPTION： 68UF400V D18*L25mm

MPN No.: XLL680M2GD18L25B

Customer Part No. RLD680M2GBK-1825

DATE：

SUPPLIER			CUSTOMER		
APPROVER	AUDITOR	DESIGNER	APPROVER	AUDITOR	TESTING
Yaojun Lv	Xianchen Liu	Xinda Zong			

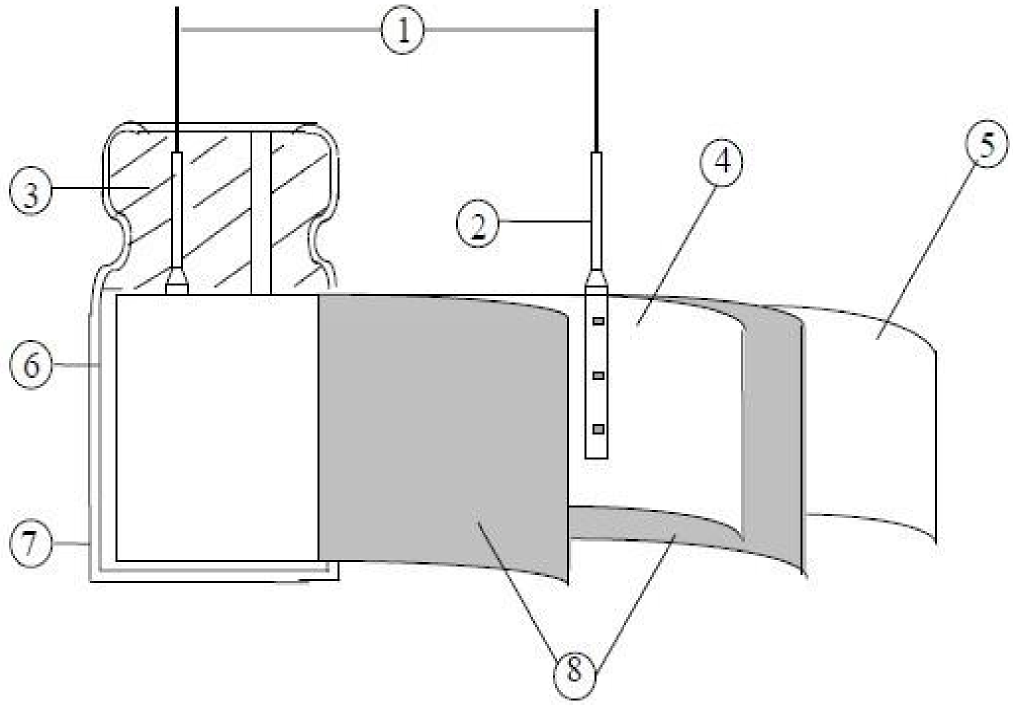
Dongguan Xuansn Electronic Tech Co.,Ltd

ADD: 3rd Floor,No.9,Hongye North Road, changan town , donguan city,guangdong province, China

TEL:0769-8166 8821 FAX:0769-2282 6791

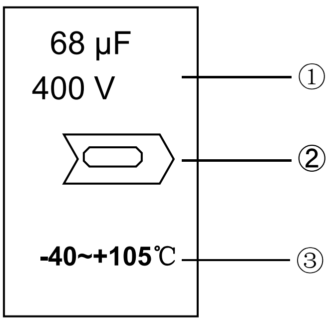
Confirmed,please sign back

一. Construction



NO	Component	Material
1	Lead Line	Tinned CP wire (Pb Free)
2	Terminal	Aluminum wire
3	Sealing Material	Rubber
4	Al-Foil (+)	Formed aluminum foil
5	Case	Aluminum case
6	Sleeve	PET
7	Separator	Electrolyte paper
8	Al-Foil (-)	Etched aluminum foil

Marking



① Rated voltage and standard capacity

② Polarity, negative

③ Operating temperature

How to order

MPN: XLL ① 680 ② M ③ 2G ④ D18 ⑤ L25 ⑥ B ⑦

1. Series

Code	Series
XLL	Long life

2. Rated Capacitance

Code	Capacitance/μf
680	68

3. Tolerance

Code	Tolerance(%)
M	±20%

4. Rated Voltage

Code	Voltage/V
2G	400

5. Diameter

Code	Diameter/mm
D18	18

6. Leight

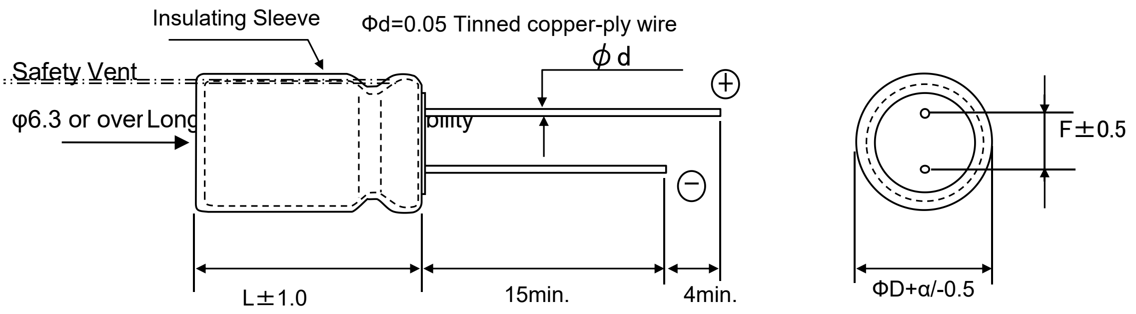
Code	Leight/mm
L25	25

7. Packaging

Code	Packaging
B	Bulk

三. Dimensions

Model	68UF400V	Size	D18*L25mm
Lead Pitch	7.5 ±0.5mm	Lead DIA	0.8 ±0.05mm



Unit(mm)

φD+0.5Max	L±1.0	F±0.5	d±0.05
18	25	7.5	0.8

Item	Capacitance Tolerance 20℃	Tanδ 120Hz	Max Leakage Current((μA)	Ripple Current (mArms) 100KHz 105 ℃	Operating Temp. (℃)	Surge Valtage (V)
No.	**-20%~+20%**	**0.24**	**544**	**1450**	**-40~+105℃**	**450**
1	65.16	0.0799	173.759			
2	65.45	0.0803	174.524			
3	65.39	0.0774	174.376			
4	65.24	0.0777	173.966			
5	64.98	0.0786	173.289			
6	65.62	0.0803	174.990			
7	65.11	0.0770	173.614			
8	64.89	0.0775	173.043			
9	65.02	0.0753	173.384			
10	65.44	0.0785	174.517			
MAX	65.45	0.0803	174.990			
MIN	64.98	0.0753	173.043			
AVE	65.24	0.0783	173.946			

四. Capacitance characteristics

1.Properties of the ripple current

①.Frequency coefficient

Freq.(HZ) / Cap(μF)	50	120	1K	10K	100K
68	/	1	1.75	2.25	2.5

②.Temperature Long Life and High Reliability

Temperature(℃)	40	60	70	85	105
Coefficient	2.4	2.1	1.78	1.65	1

2. Rated Value And Characteristic

<table>
<tr><td>Item</td><td>Performance</td><td colspan="2">Test method</td></tr>
<tr><td>Leakage current</td><td>Whichever is smaller
(after 2 min)</td><td colspan="2">Resistance range: 1000±10Ω
Applied voltage: rated voltage
Measuring time: 2 min</td></tr>
<tr><td>Static Capacitance</td><td>-20%~+20%</td><td colspan="2">Measuring frequency: 120HZ±20%
Measuring voltage:
≤0.5Vrms,1.5~2.0VDC</td></tr>
<tr><td>Dissipation Factor (tanδ)</td><td>0.24 and under</td><td colspan="2">Same as condition of capacitor</td></tr>
<tr><td rowspan="4">Stability at low temperature</td><td colspan="3">Impedance ratio at 120HZ:</td></tr>
<tr><td>WV</td><td>400</td><td rowspan="3"></td></tr>
<tr><td>Z(-25℃)/Z(+20℃)</td><td>5</td></tr>
<tr><td>Z(-40℃)/Z(+20℃)</td><td>6</td></tr>
</table>

<table>
<tr><td rowspan="4">High temperature load life</td><td>Leakage current</td><td>≤the value specified in table 1</td><td rowspan="4">Test temp: 105 ± 2℃

Applied voltage:
rated voltage
with Ripple current

Test time: 12000 hours
(+100/-0 hours)</td></tr>
<tr><td>Cap. Change</td><td>≤±20% of initial value</td></tr>
<tr><td>Dissipation Factor</td><td>≤200% of value specified in table 1</td></tr>
<tr><td>Appearance</td><td>No remarkable abnormality</td></tr>
<tr><td rowspan="4">High temperature no load characteristics</td><td>Leakage current</td><td>≤the value specified in table 1</td><td rowspan="4">Test temp: 105 ± 2℃

No voltage applied

Test time:1000 hours
(+24/-0 hours)</td></tr>
<tr><td>Cap. Change</td><td>≤±20% of initial value</td></tr>
<tr><td>dissipation Factor</td><td>≤200% of value specified in table 1</td></tr>
<tr><td>Appearanc）</td><td>No remarkable abnormality</td></tr>
<tr><td rowspan="6">Surge voltage</td><td>Item</td><td colspan="2">Performance</td></tr>
<tr><td>Leakage current</td><td colspan="2">≤the initial specified value</td></tr>
<tr><td>Cap. Change</td><td colspan="2">≤±20% against value before test</td></tr>
<tr><td>Dissipation Factor</td><td colspan="2">≤the initial specified value</td></tr>
<tr><td>Appearance</td><td colspan="2">No remarkable abnormality</td></tr>
<tr><td colspan="3">Test temp:15~35℃
Test voltage,surge voltage specified in 2 voltage apply.
1000 times of charge for 30±5sec,under frequency of 6±0.5sec,and discharge for 5min 30sec.</td></tr>
</table>

<table>
<tr><td rowspan="4">Vibration resistance</td><td>Capacitance</td><td colspan="2">Stability required</td></tr>
<tr><td>Cap. Change</td><td colspan="2">≤±5 % of the specified initial value.</td></tr>
<tr><td>Appearance</td><td colspan="2">No remarkable abnormality</td></tr>
<tr><td colspan="3">Frequency:10~55HZ/1min,width of vibration,1.5mmdirection and duration X,Y</td></tr>
<tr><td rowspan="4">Resistance to soldering</td><td>Leakage current</td><td>≤initial specified value</td><td rowspan="4">Soldering temp:
280±5℃
Soldering time:
10±1 sec</td></tr>
<tr><td>Cap. Chang</td><td>≤±10% of initial value</td></tr>
<tr><td>Dissipation Factor</td><td>≤the initial specified value</td></tr>
<tr><td>Appearanc</td><td>No remarkable abnormality</td></tr>
<tr><td rowspan="4">Resistance to humidity</td><td>Leakage current</td><td>≤initial specified value</td><td rowspan="4">Test temp:40±2℃
Humidity:90~95%
Test time:500±8 hours

After the above condition, restored to normal temp, and then measuring.</td></tr>
<tr><td>Cap. Change</td><td>≤±10% of initial value</td></tr>
<tr><td>Dissipation Factor</td><td>≤initial specified value</td></tr>
<tr><td>Appearance</td><td>No remarkable abnormality</td></tr>
</table>