

CUSTOMER: 深圳市安品科研科技有限公司
DATE: July 24,2023

SPECIFICATION

DESCRIPTION: Aluminium Electrolytic Capacitors

AISHI P/N: ERS1KM471L25C36T

SERIES: RS

ITEM: 100 V 470 μ F (Φ 16 × 25)

CUSTOMER P/N:

No.: CRS-JD-23070723

APPROVED BY

Please Return One Copy with Your Approval

PREPARED BY	CHECKED BY	APPROVED BY
 <p>陳娟 技術中心</p>	 <p>何盼 技術中心</p>	 <p>溫建龍 技術中心</p>

CUSTOMER	深圳市安品科研科技有限公司	SERIES	RS	DATE	2023/07/24
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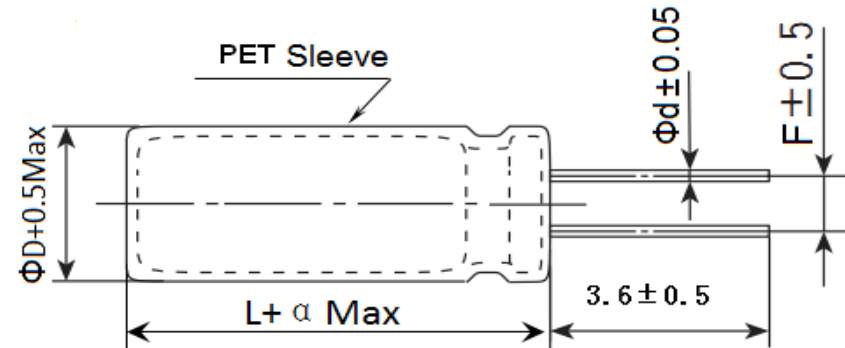


FIG-1

TABLE-1

No.	Customer Part No.	Aishi Part No.	Capacitance (μF)	Tolerance on Rated Capacitance (%)	Rated Voltage (Vdc)	Surge Voltage (Vdc)	Operating Temp. Range ()	Tan δ (120Hz) (Max)	Leakage Current (μA)(2min.)	Max Ripple Current (mA)rms at 105 100kHz	Impedance (Ω)Max at 20 100kHz	Endurance at 105 (Hours)	Dimensions (mm)					Appearance Drawing No.
													ΦD	L	α	d	F	
1		ERS1KM471L25C36T	470	-20,+20	100	125	-40~+105	0.08	470	1640	0.05	10000	16	25	2	0.8	7.5	FIG-1

1 概述 SCOPE

RS

This specification covers "RS series" miniature single-ended aluminium electrolytic capacitors. AISHI reserves the right of final interpretation for this technical specification.

2 参考标准 APPLICABLE SPECIFICATION

This specification consulted the institute of IEC 60384-1, IEC 60384-4, GB/T 2693 and GB/T 5993.

3 工作温度范围 OPERATING TEMPERATURE RANGE

Operating temperature range is the range of ambient temperature at which the capacitor can be operated continuously at rated voltage.

4 测试环境 CONDITION OF TEST

15 ~35
45%~75%
86kPa~106kPa

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows:

Ambient temperature 15 to 35
Relative humidity 45% to 75%
Air pressure 86kPa to 106kPa

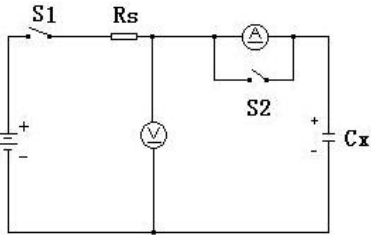
If there may be doubt on the results, measurements shall be made within the following limits:

Ambient temperature : 20 ± 1
Relative humidity : 60% to 67%
Air pressure : 86kPa to 106kPa

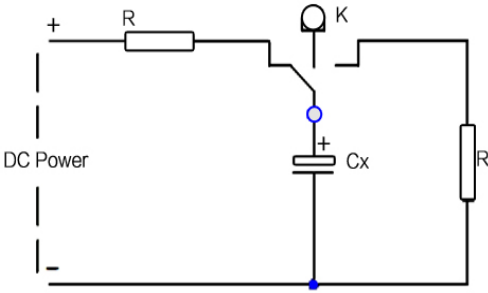
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5 产品特性 PRODUCT CHARACTERISTICS

5.1 电气特性 Electrical Characteristics

序号 No.	项目 Item	测试方法 Test method	性能 Performance
5.1.1	Rated voltage	$\overset{+}{\text{Voltage: DC voltage + peak ripple voltage}}$ Rated voltage	See TABLE-1
5.1.2	Capacitance	Measuring frequency: 120Hz \pm 20% Measuring circuit: Series equivalent circuit Measuring voltage: 0.5Vrms or less +1.5 to 2.0 VDC	容量偏差: -20%~+20% Capacitance tolerance: -20%~+20%
5.1.3	Dissipation factor	Testing conditions are the same as 5.1.2 for capacitance.	DF 1 DF: See TABLE-1
5.1.4	Leakage current	The rated voltage shall be applied across the capacitor and its protective resistor shall be 1000 \pm 100 Ω . The leakage current shall then be measured after an electrification period of schedule time. Measurement circuit: 	6.3V~120V: $I \leq 0.01CV$ 或 $3\mu A$, 取较大值 (2分钟后) 6.3V~120V: $I \leq 0.01CV$ or $3\mu A$ Whichever is greater (after 2 min) I: 漏电流 (μA) C: 容量 (μF) V: 额定工作电压 (V) I: Leakage current (μA) C: Capacitance (μF) V: Rated voltage (V)

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5.1.5	Temperature characteristic				<p>Step 2: Impedance value ratio to the value at step 1 shall be not more than the value given in TABLE-2.</p> <p>Step 4: Variation of capacitance Within $\pm 20\%$ of the initial value.</p>
		1	20 \pm 2	--	
		2	-25, -40 ⁺⁰ / ₋₃ °C	2h	
		3	20 \pm 2	15min.	
		4	105 ⁺³ / ₀ °C	2h	
<p>Step 1: Capacitance and impedance shall be measured. (z 20 120Hz $\pm 20\%$);</p> <p>Step 2: After the capacitor being stored for 2 hours, impedance shall be measured at thermal stability. (z-25, -40 120Hz $\pm 20\%$);</p> <p>Step 4: After the capacitor being stored for 105 2 hours, capacitance shall be measured. The measurement shall be made at thermal stability.</p>					
5.1.6	Surge test	<p>Application of DC surge Voltage stated at TABLE-1. 1000 times of charging for 30\pm5 sec., discharging with a period of 5.5\pm0.5 min..</p> <p>Test temperature: 15 -35</p> <p>And the capacitor shall be stored under standard atmospheric conditions to obtain thermal stability, after which measurements shall be made.</p>			<p>Capacitance change: Within $\pm 20\%$ of the initial value</p> <p>Dissipation factor: Not more than 200% of the specified value in TABLE-1.</p> <p>Leakage current: To satisfy No. 5.1.4 .</p>
		<p>Test circuit</p>  <p>Note: This requirement is applicable only to instantaneous over voltage which may be applied to terminals of capacitor, therefore, not applicable to such over voltages as often applied.</p>			

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5.2 机械特性 Mechanical Performance

序号 No.	项目 Item	测试方法 Test method	特性 Performance				
5.2.1	Terminal strength		When the capacitor is measured, there shall be no intermittent contacts, or open or short-circuiting. There shall be no visible mechanical damage.				
		0.45		0.5	0.6	0.8	1.0
		5		10		20	
		Tensile strength of terminal: A static load (stated in the table above) shall be applied to the terminal in the axial direction and acting in a direction away from the body for 10±1 sec.. Bending strength of terminal: Hang the specified dead weight (stated in the table above), then bend the body through 90°, return to the original position. Next bend it in opposite direction through 90° with the same speed, again return to the original position. Complete this operation in about 5 sec..					
		0.45		0.5	0.6	0.8	1.0
		2.5		5		10	
5.2.2	Resistance to vibration	振幅峰-峰值 Direction and duration of vibration: 3 orthogonal directions mutually each for 2h, Total 6h. Vibration frequency range :10-55Hz. Peak to peak amplitude: 1.5mm Sweep rate :10 to 55 to 10Hz in about 1 min.	When the capacitor is measured there shall be no intermittent contacts, or open or short circuiting There shall be no visible mechanical damage.				
5.2.3	Solderability	Temperature of solder: 235±5 Dipping time: 2±0.5sec. This specification shall be met after the capacitors are stored under standard atmospheric conditions for 6 months.	At least 90% of circumferential surface of the dipping portion of terminal shall be covered with new solder.				

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5.3 耐久性测试 Endurance Performance

序号 No.	项目 Item	测试方法 Test method	特性 Performance
5.3.1	Resistance to soldering heat	Solder bath method Solder bath temperature : 260±5 Immersion time : 10±1sec. Printed wiring board: 1.6mm	Variation of capacitance: Within ±10% of the initial value. Dissipation factor: Not more than the specified value in TABLE-1. Leakage current: To satisfy No. 5.1.4 . Appearance: No remarkable abnormality.
5.3.2	Resistance to damp heat (steady state)	Test temperature : 40±2℃ Test time : 240±8h Relative humidity: 90~95% After completion of test, the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurements shall be made.	Variation of capacitance: Within ±10% of the initial value. Dissipation factor: Not more than the specified value in TABLE-1. Leakage current: To satisfy No. 5.1.4 . Appearance: No remarkable abnormality.
5.3.3	Load life test	1. 105 2 , Application of the rated voltage and the rated ripple current, Test temperature:105 2 Testing time: refer to TABLE-1 life requirements.	Variation of capacitance: Within ±20% of the initial value.(6.3V,10V:±30%) Dissipation factor: Not more than 200% of the specified value Leakage current: Not more than the specified value in No. 5.1.4 . Appearance: No remarkable abnormality.

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5.3.4	Shelf life test	1000^{+48}_{-0} The capacitors are stored without voltage load at $105\pm 2^{\circ}\text{C}$ for 1000^{+48}_{-0} h and then resumed 16 hours.	1000^{+48}_{-0} Variation of capacitance: Within $\pm 20\%$ of the value before test. (6.3V, 10V: $\pm 30\%$) Dissipation factor: Not more than 200% of the specified value Leakage current: Not more than 200% of the specified value in No. 5.1.4 . Appearance: No remarkable abnormality
5.3.5	Safety vent	以下试验只适用于铝壳直径 $\geq \Phi 8$ 产品。 The following tests only apply to those products with vent products at diameter $\geq \Phi 8$ with vent. 在电容器两极施加反向直流电压，其中通过的电流为1A，在测试时防爆装置应能在30分钟内动作。 DC Application test: The capacitor shall be subjected to a reverse DC voltage. The current flowing through the capacitor shall be 1A. If the vent does work with the voltage applied for 30 minutes, the test is considered to be passed.	The safety vent is actuated under the test conditions, thereby preventing terminals, metal pieces, etc, of the capacitor from scattering due to burst, the case from separating from the seal packing, or the capacitor from producing flame.

※ TABLE-2 : 阻抗比 Max. Impedance Ratio

Rated voltage (Vdc)	6.3	10	16	25	35	50	63	80	100	120
$ z _{-25} / z _{20}$	4	3	2							3

※ TABLE-3 : 纹波电流频率因子 RIPPLE CURRENT FREQUENCY COEFFICIENT

Cap.(μF) \diagdown Freq.(Hz)	120	1k	10k	100k
Cap. < 220	0.40	0.75	0.90	1.00
220 \leq Cap. < 680	0.50	0.85	0.94	1.00
680 \leq Cap. < 2200	0.60	0.87	0.95	1.00
2200 \leq Cap. < 4700	0.75	0.90	0.95	1.00
Cap. \geq 4700	0.85	0.95	0.98	1.00

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6 标记 MARKING

6.1 在电容器体上应注明如下内容：



RS 105°C

YyWw□PET (Yy

□

PET

--V--μF



Ww

“Z Y J S”

6.1 The Following Items Shall Be Marked Indelibly On The Capacitor:

- (1) Manufacture's name or trade mark.
- (2) Series - rated temperature
- (3) Date code- AIHUA code -sleeve material



RS 105°C

YyWw□PET (Yy denotes last two digit of years and Ww

denotes the week in which the capacitor been manufactured,

□denotes the code of AIHUA, AIHUA code: “ Z、Y、J、S、W……” PET denotes the sleeve material)

- (4) Voltage / Capacity
- (5) Negative polarity

--V--μF



6.2 标记颜色 Color

Sleeve color: Violet

Marking color: White

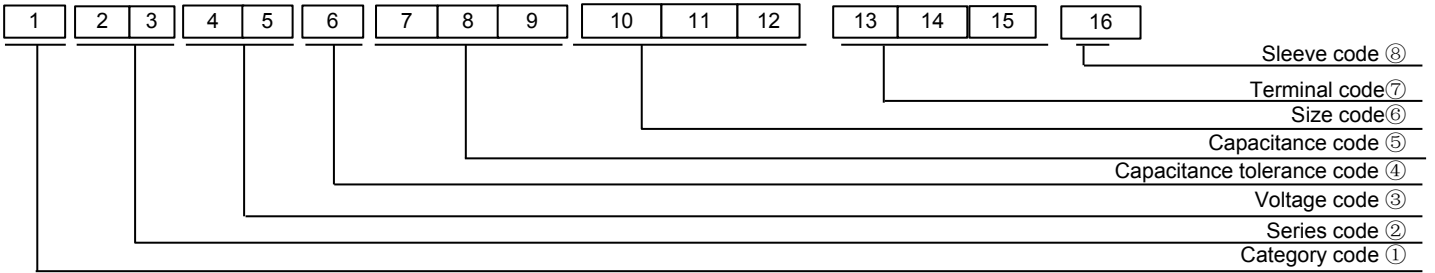
6.3 : 纹波电流温度系数 RIPPLE CURRENT TEMPERATURE COEFFICIENT

105°C max.capacitors

Capacitor ambient temperature	65°C 以下	75°C	85°C	95°C	105°C
Guide limit of max.ΔTx	25°C	20°C	15°C	10°C	5°C
Temperature coefficient(Actualrmsripple / Ratedrmsmax. ripple)	2.23	2	1.73	1.41	1.00

NOTE:Temperature coefficient is not used in life formula but for reference.

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7 物料编码 PART NO SYSTEM

① Category code

Type	Code	
	1th	
Electrolytic Capacitor	E	

② Series code

Series name	Code	
	2th	
	3th	
RS	R	S

③ Voltage code

WV (V)	Code	
	4th	5th
4	0	G
6.3	0	J
10	1	A
16	1	C
25	1	E
35	1	V
40	1	G
50	1	H
63	1	J
80	1	B
100	1	K
120	2	B
140	2	A
160	2	C
180	2	L
200	2	D
220	2	N
250	2	E
300	2	M
315	2	F
350	2	V
380	2	P
400	2	G
420	2	T
450	2	W
500	2	H
550	2	J

④ Capacitance tolerance code

Tol.(%)	Code	
	6th	
-10~+10	K	
-20~+20	M	
-10~+30	Q	
-5~+15	T	
-10~+20	V	
0~+20	A	
-5~+20	C	
-20~-10	B	
-5~+5	D	
0~+10	E	
-20~-5	F	
-15~+5	N	
-20~0	G	
-15~+15	H	

⑤ Capacitance code

Cap (μF)	Code		
	7th	8th	9th
0.10	R	1	0
0.22	R	2	2
0.33	R	3	3
0.47	R	4	7
0.68	R	6	8
1	0	1	0
1.5	1	R	5
2.2	2	R	2
3.3	3	R	3
4.7	4	R	7
5.6	5	R	6
6.8	6	R	8
8.2	8	R	2
10	1	0	0
12	1	2	0
15	1	5	0
18	1	8	0
22	2	2	0
33	3	3	0
47	4	7	0
56	5	6	0
68	6	8	0
82	8	2	0
100	1	0	1
150	1	5	1
220	2	2	1
330	3	3	1
470	4	7	1
560	5	6	1
680	6	8	1
820	8	2	1
1000	1	0	2
1500	1	5	2
2200	2	2	2
3300	3	3	2
4700	4	7	2
6800	6	8	2
10000	1	0	3
22000	2	2	3
33000	3	3	3
68000	6	8	3

⑥ Size code

ΦD	Code	
	10th	
4	C	
5	D	
6.3	E	
8	F	
10	G	
11	H	
12	J	
12.5	W	
13	K	
14	X	
16	L	
18	M	
19	Z	
20	N	
22	O	
25	P	
30	Q	
35	R	
40	Y	
51	S	
63.5	T	
76	U	
90	V	

L	Code	
	11th	12th
5	0	5
7	0	7
9	0	9
10	1	0
11	1	1
12	1	2
13	1	3
14	1	4
16	1	6
20	2	0
25	2	5
30	3	0
31	3	1
35	3	5
40	4	0
45	4	5
46	4	6
50	5	0
60	6	0
80	8	0
100	A	0
115	B	5
120	C	0
130	D	0
140	E	0
160	G	0
200	K	0

⑦ Terminal code

Specification	Code	Size		
		13th	14th	15th
Bulk packing	O	-	-	-
编带Taping F=5mm (Φ4~Φ8)	P	5		0
Taping F=2.5mm (Φ4~Φ5)	X	2		5
Taped Straight-pack	B		5	0
			3	5
			2	5
			2	0
		1	5	
Lead Cut L=3.6mm	C	3		6
Lead Cut L=11.0mm	C	B		0
Lead Forming & cut L=4.5mm	F	4		5
Kink & cut L=4.5mm	J	4		5
Long lead wire (-30mm)	G	-		-
Horizontal forming	L	G		1

⑧ Sleeve code

Sleeve	Code	
	16th	
PVC	C	
PET	T	

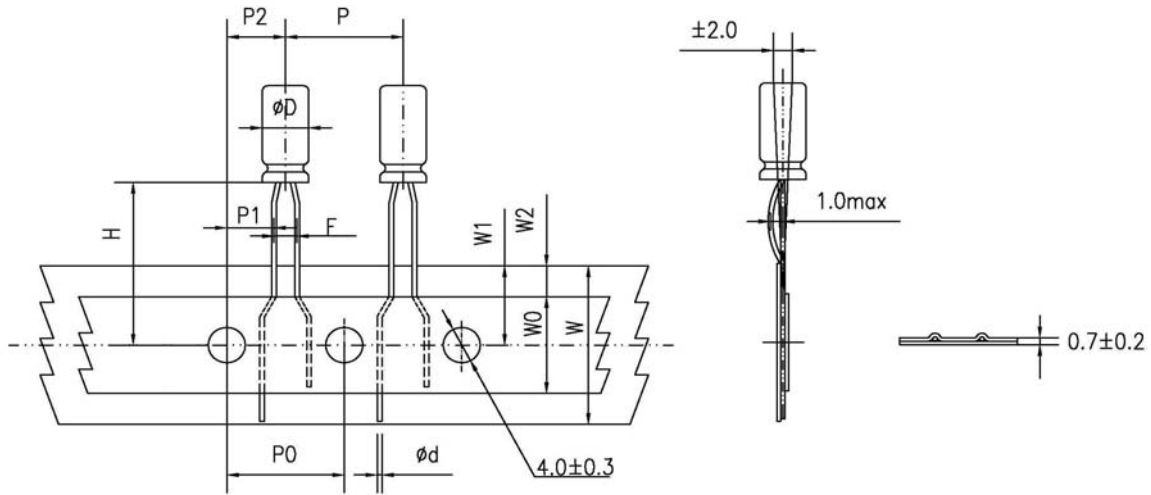
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8 加工型式 LEAD FORMING TYPE

8.1 编带 Taping

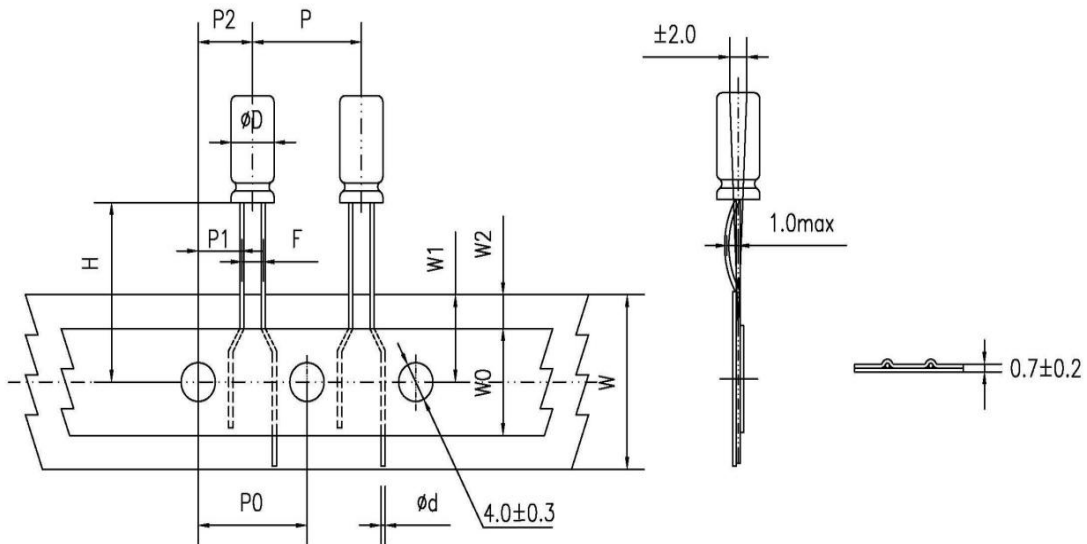
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$\Phi D=4\sim 5$



PIN Code: B

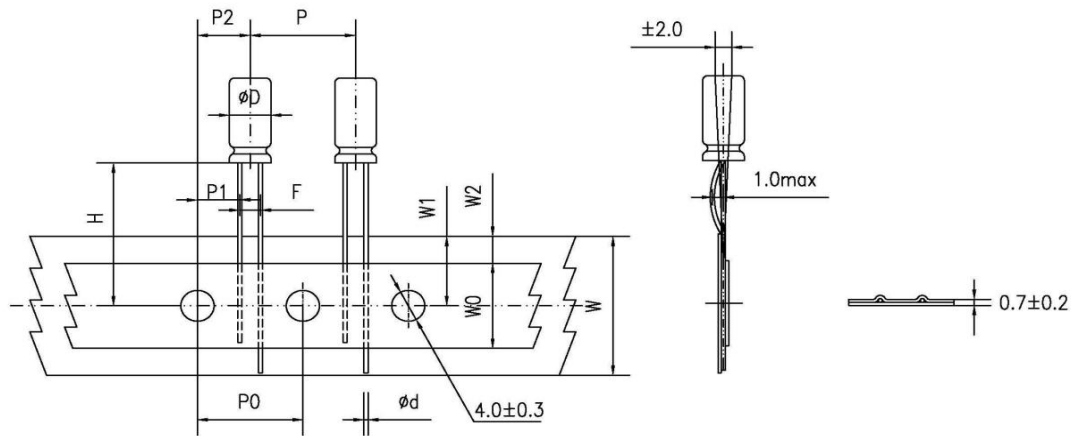
$\Phi D=4\sim 8$



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ALUMINUM ELECTROLYTIC CAPACITOR

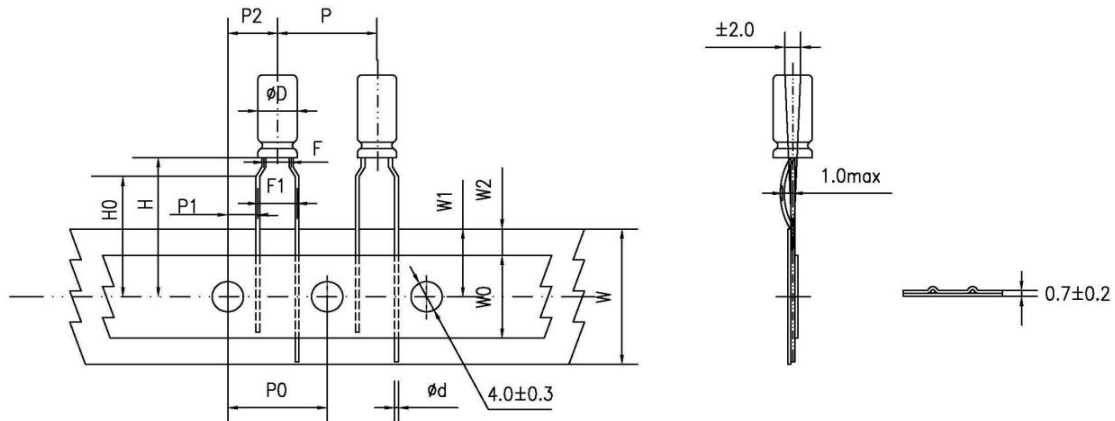
PIN Code: B
 $\Phi D=10\sim 12.5$



DIMENSIONS(mm)

Items	Symbol	CASE SIZE										Tolerance		
		4x5 4x7	5x5 5x7	5x11 5x12	6.3x5	6.3x7 6.3x9 6.3x11 6.3x12	8x5 8x7 8x11 8x12	8x16 8x20	10x12 10x13 10x16 10x20	12.5x16 12.5x20				
Lead forming symbol		X	B	X	B	X	B	B	B	B	B	B	B	
Lead-wire diameter	Φd	0.45	0.45	0.5	0.45	0.5	0.45/0.5	0.5/0.6	0.6	0.6	0.6	± 0.05		
Pitch of componet	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0	15.0	± 1.0		
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0	15.0	± 0.2		
Hole center to lead	P1	5.1	5.6	5.1	5.4	5.1	5.4	5.1	5.1	4.6	4.6	3.85	5.0	± 0.7
Hole center to component	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	7.5	± 1.0	
Lead to lead distance	F	2.5	1.5	2.5	2.0	2.5	2.0	2.5	2.5	3.5	3.5	5.0	5.0	± 0.5
Height of component from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	± 0.75	
Tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	± 0.5	
Hold down tape width	W0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	min	
Feed hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5	
Hole down tape position	W2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	max	

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PIN Code: P
 $\Phi D=4\sim 8$

DIMENSIONS(mm)

Items	Symbol	Case Size									Tolerance
		4x5 4x7	5x5	5x7	5x11	6.3x5	6.3x7	6.3x11	8x5 8x7 8x11 8x12	8x16 8x20	
Lead forming symbol		P	P	P	P	P	P	P	P	P	
Lead-wire diameter	Φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.5/0.6	± 0.05
Pitch of componet	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	± 1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	± 0.2
Hole center to lead	P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	± 0.7
Hole center to component	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	± 1.0
Lead to lead distance	F	1.5	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	± 0.5
Lead to lead distance	F1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	± 0.5
Height of component from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	± 0.75
Lead-wire clinch height	H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	± 0.5
Tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	± 0.5
Hold down tape width	W0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	min
Feed hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	max

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8.2 端子切脚或成型 Lead Cut& Lead Forming

Lead cut PIN code: C Range: $\Phi 4\sim\Phi 18$			Lead forming and cut PIN code: F Range: $\Phi 4\sim\Phi 8$		
ΦD	F	L	ΦD	F	L
4	1.5	3.0~12.0	4	5.0	3.5, 4.5, 5.0, 7.0
5	2.0	3.0~12.0	5	5.0	3.5, 4.5, 5.0, 7.0
6.3	2.5	3.0~12.0	6.3	5.0	3.5, 4.5, 5.0, 7.0
8	3.5	3.0~12.0	8	5.0	3.5, 4.5, 5.0, 7.0
10	5.0	3.0~12.0	-	-	-
12.5	5.0	3.0~12.0	-	-	-
16	7.5	3.0~12.0	-	-	-
18	7.5	3.0~12.0	-	-	-

● Kink & Cutting
PIN code: J
Range: $\Phi 10\sim\Phi 18$

ΦD	F	L
10	5.0	4.0, 4.5, 5.0
12.5	5.0	4.0, 4.5, 5.0
16	7.5	4.0, 4.5, 5.0
18	7.5	4.0, 4.5, 5.0

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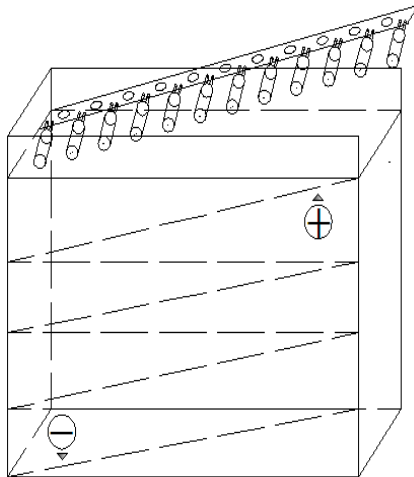
9 包装PACKING

包装标签内容 Label on the packaging box or bag (The following items shall be marked on the label)

(Inside box or bag) :

Series P/N Rated capacitance Rated voltage

编带产品按下图包装 Taped Packing



散包装按下图包装方式 Bulk Packing



carton



inner box

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10 其它说明 OTHER REMARKS

10.1 铝电解电容器使用注意事项

Important Information On The Application Of Aluminium Electrolytic Capacitors

1 直流铝电解电容器应按正确的极性使用 DC aluminium electrolytic capacitors are normally polarized

When reverse voltage is applied on DC aluminium electrolytic capacitor the circuit will be short out and the capacitor will be damaged due to abnormal current flows through the capacitor. Please use non-polar types of capacitors the positive voltage is applied on the cathode terminal.

2 在额定工作电压以下使用 Use capacitor within rated voltage

When capacitor is used at higher voltage than the rated voltage, leakage current may increase and characteristics may be deteriorated and damaged in a short period. Please take extra caution that the peak voltage should not exceed the rated voltage.

3 作快速充放电使用 Sudden charge and discharge

When aluminium electrolytic capacitors for general purpose-use are employed in rapid charge and discharge its life may be shortened resulted from capacitance decrease, heat rise, etc.

4 电容器储存 Storage of the capacitor

We recommend the following conditions for storage: Ambient temperature: 5~35 , Ambient humidity: 75%RH;

If storage life 12 months, the products need to be charged again before using;

If storage time three years, the products need to be discarded;

Expiry date: calculating from the date marked on the sleeve;

Please keep capacitors in the original package;

Avoid storing the capacitors under such circumstances:

With water and oil or damp & dewing location

With toxic gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, bromine and methane

Leakage current tends to increase when capacitors have been stored for long period of time. The higher storage Temp. rise, the higher leakage current increase. Please take caution when selecting the storage location. The leakage current will decrease gradually as voltage is applied to the capacitor. The capacitor is subjected to aging before using where increased leakage may cause problems in the circuit.

5 施加纹波电流应小于额定值 Use capacitor within rated ripple current

If excessive ripple current is applied on the capacitor, excessive heat will be generated inside, the capacitance be reduced and capacitor's life shall be shortened. Rated voltage has been marked on the capacitor; therefore, the peak value of the ripple voltage should be less than the rated voltage.

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6 使用环境温度 Ambient temperature

Life of aluminium electrolytic capacitor is affected by the ambient temperature. It is generally known that the life doubles for each 10 decrease in temperature.

7 引出线强度 Tensile strength of lead wire

When a strong force is applied to the lead wires or terminals, stress is put on the internal connections, which may result in short circuit, open circuit or leakage current increase. Therefore it is not advisable to bend or handle a capacitor after it has been to the PC board.

8 焊接过程耐热性 Heat resistance at the soldering process

During soldering process, secondary shrinkage or sleeve crack may occur when soldering temperature is too high or soldering time is too long.

9 电路板的安装孔孔距及安装位置 Hole pitch and position of PC board

When designing a PC board, its hole pitch should be designed to coincide with the lead pitch(lead spacing) of the specified in the catalog or specifications. When a capacitor is forcibly inserted into an unmatched hole pitch, a will put on the leads and which could result in a short circuit or increased leakage current.

10 关于焊接以后的清洗 Cleaning after soldering

The aluminium electrolytic capacitors should be free of halogenated solvents during board cleaning after soldering. Use solvent proof capacitors when halogenated solvents are used.

After cleaned with the solvent which can guarantee the quality of capacitors, the capacitors should not be kept in solvent environments of non-ventilated places. Let the capacitors after cleaning dry with hot blast fully above 10 mins and the temperature of hot blast should not be over than specified upper limit of that of capacitors.

(11) 关于固定剂、镀层(涂层剂)以及PCB Concerning adhesives、coating materials(coating agent) and PCB.

Do not use halogen-containing adhesives, coating materials(coating agent) and PCB to fix aluminum electrolytic capacitors.

Do not cover up all the sealing area of capacitors with adhesives or coating materials(coating agent),make coverage only partial.

12 符合 RoHS RoHS Compliance

Completely in accordance with the latest standard of RoHS or relevant agreements reached by both parts if customer has special requirements.

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