

承 认 书

APPROVING SHEET

CUSTOMER

客 户: _____

PART NAME : Chip-Aluminum Electrolytic Capacitor

品 名: 片式铝电解电容器

SERIES: _____

系 列: JVD

SPECIFICATION: _____

规格: 全系列中高压

DATE _____

日 期: 2019-02-10

制 造		客 户	
MANUFACTURE		CUSTOMER	
拟 制 FORMULATE	批 准 APPROVAL	检 验 CHECK	批 准 APPROVAL
付道明	李洋		

地址:

电话(TEL):

传真(FAX):

邮编(POST CODE):

E-mail:

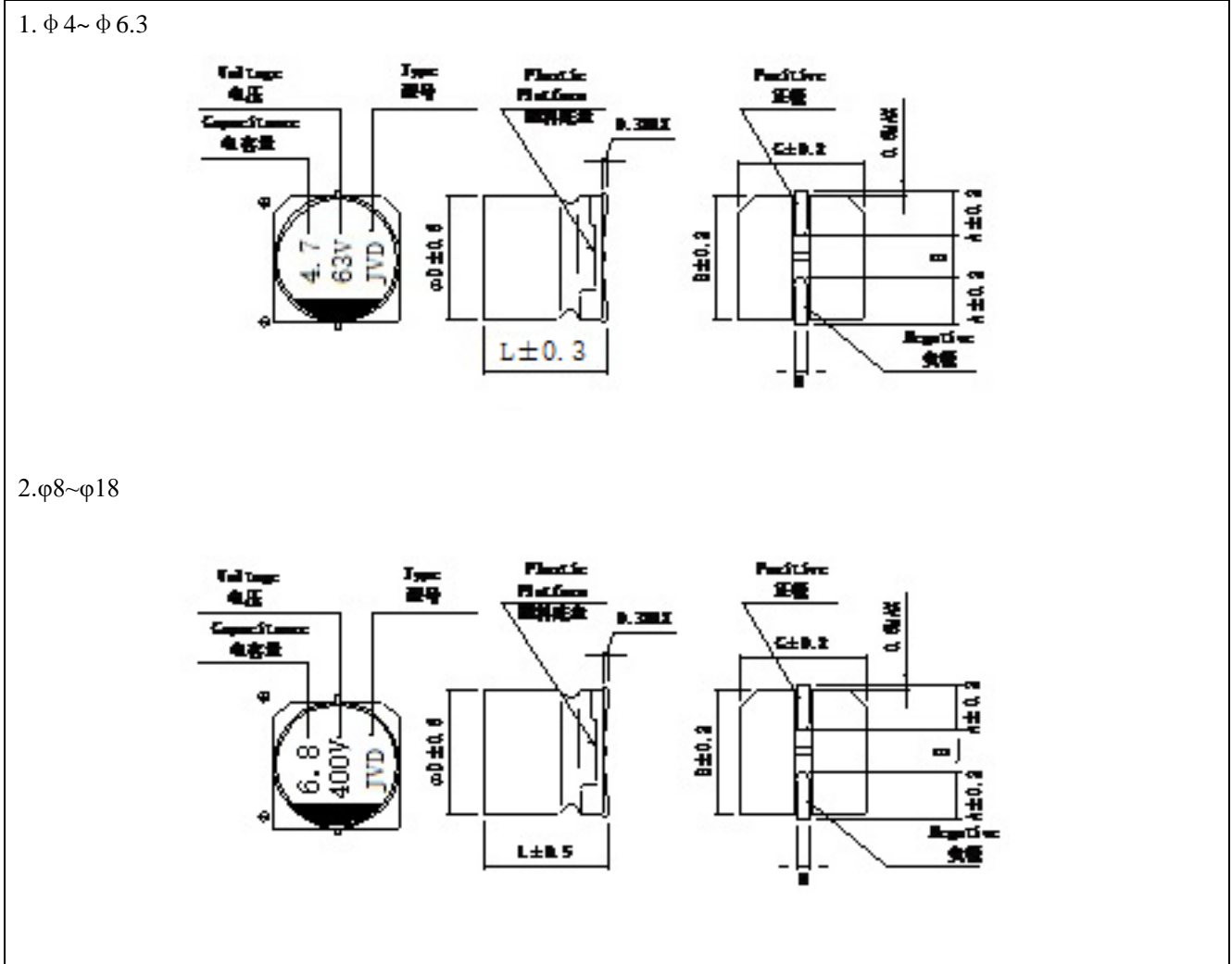
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一、概述 SCOPE

本产品规格书适用于 CDJVD 型片式铝电解电容器产品。

The product specification is adapted to series CDJVD V-CHIP Aluminum Electrolytic Capacitors .

二、外形图及尺寸表 Case size table



单位:mm

ΦD	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	6.3 × 10.5	8 × 10.5	8 × 12.5	10 × 10.5	10 × 12.5	12.5 × 13.5	12.5 × 16.5	16 × 16.5	18 × 16.5	18 × 21.5	
A	1.8	2.1	2.4	2.4	2.4	2.9	2.9	3.2	3.2	4.8	4.8	5.8	6.8	6.8	
B	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3	10.3	13	13	17	19	19	
C	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3	10.3	13	13	17	19	19	
E	1.0	1.3	2.2	2.2	2.2	3.1	3.1	4.5	4.5	4.4	4.4	6.4	6.4	6.4	
L	5.4	5.4	5.4	7.7	10.5	10.5	12.5	10.5	12.5	13.5	16.5	16.5	16.5	21.5	
H	0.5~0.8					0.8 ~ 1.1					1.1~1.4				

三、 技术性能 Specifications

项目 Items	特性 Characteristics							
工作温度范围 Operating Temperature Range	-55°C ~ 105°C (63~100V)							
	-40°C ~ 105°C (160~450V)							
额定电压范围 Rated Voltage Range	63V ~ 450V							
标称容量范围 Nominal Capacitance Range	1 ~ 680 μF							
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20°C, 120Hz)							
漏电流 Leakage Current	63~100V				160~450V			
	$I \leq 0.03 C_R U_R$ or 4(uA)取较大者 (2分钟) C_R : 标称容量 (μF) U_R : 额定电压 (V) Whichever is greater(at 20°C,After 2 minutes) C_R : Nominal Capacitance (μF) U_R : Rated voltages (V)				$I \leq 0.04 C_R U_R + 100(uA)$ Max. (1分钟)			
损耗角正切 (tgδ) Dissipation Factor (Max) 20°C, 120Hz	U_R (V)	63	80	100	160	200	250	400~450
	tgδ	0.10	0.10	0.09	0.20	0.20	0.20	0.15

四、称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

V μF	63			80			100		
	D×L mm	Impedance Ω	I~mA	D×L mm	Impedance Ω	I~mA	D×L mm	Impedance Ω	I~mA
3.3				5*5.4	5.50	25			
4.7	5*5.4	1.90	70	6.3*5.4	3.50	40			
10	6.3*5.4	1.20	130	6.3*7.7	2.40	60			
15	6.3*5.4	1.20	130						
22	6.3*7.7	0.90	150	8*10.5	1.30	130	8*10.5	1.30	130
33	8*10.5	0.50	280	8*10.5	1.30	130	10*10.5	0.70	200
47	8*10.5	0.50	280	10*10.5	0.70	200	10*10.5	0.70	200
56	8*10.5	0.50	280	10*10.5	0.70	200	10*10.5	0.70	200
68	10*10.5	0.35	400	12.5*13.5	0.32	500	12.5*13.5	0.32	500
100	10*10.5	0.35	400	12.5*13.5	0.32	500	16*16.5	0.17	790
150	12.5*13.5	0.16	800	12.5*13.5	0.32	500	16*16.5	0.17	790
220	12.5*13.5	0.16	800				18*16.5	0.15	920
330				16*16.5	0.17	795	18*16.5	0.15	920
470	16*16.5	0.082	1400	18*16.5	0.15	920			
680	18*16.5	0.08	1680						

I~ = Rated ripple current (mA) (105°C, 100KHz) I~ = 额定纹波电流 (mA) (105°C, 100KHz)

Impedance (Ω) at 20°C 100KHZ

■ 额定纹波电流的频率系数

Frequency coefficient of ripple current

Frequency 频率	50Hz	120Hz	300Hz	1KHz	≥ 10KHz
Coefficient 系数	0.35	0.50	0.64	0.83	1.00

四、称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

V μF	160		200		250		400	
	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA
1	6.3*10.5	25	6.3*10.5	22	6.3*10.5	22	6.3*10.5	25
2.2	6.3*10.5	35	6.3*10.5	32	6.3*10.5	32	6.3*10.5	35
3.3	6.3*10.5	45	6.3*10.5	42	6.3*10.5	42	8*10.5	50
4.7	6.3*10.5	52	6.3*10.5	50	6.3*10.5	50	8*10.5	60
	8*10.5	60	8*10.5	55	6.3*10.5	55	8*12.5	65
5.6	6.3*10.5	57	6.3*10.5	55	8*10.5	55	10*10.5	75
6.8	6.3*10.5	60	6.3*10.5	55	8*12.5	75	10*10.5	82
	8*10.5	70	8*10.5	65	8*10.5	85	10*12.5	90
10	8*10.5	90	8*10.5	85	8*12.5	100	10*12.5	110
12	8*10.5	95	8*10.5	90	8*12.5	110	10*12.5	120
15	8*10.5	110	8*12.5	110	10*12.5	150	12.5*13.5	150
22	10*10.5	150	10*10.5	140	12.5*13.5	215	12.5*16.5	200
33	10*12.5	195	10*12.5	185	12.5*13.5	260	16*16.5	290
47	12.5*13.5	275	12.5*13.5	260	12.5*13.5	280	16*16.5	345
56	12.5*13.5	300	12.5*13.5	280	16*16.5	390	18*16.5	200
68	12.5*13.5	330	12.5*16.5	340	16*16.5	475		
100	16*16.5	500	16*16.5	480	18*16.5	620		

V μF	420		450					
	D×L mm	I~mA	D×L mm	I~mA				
1	6.3*10.5	20	6.3*10.5	20				
2.2	6.3*10.5	30	6.3*10.5	30				
3.3	8*10.5	41	8*10.5	41				
4.7	8*12.5	53	10*10.5	56				
5.6	8*12.5	58	10*10.5	62				
6.8	10*10.5	67	10*10.5	67				
10	10*12.5	90	12.5*13.5	105				
12	12.5*13.5	115	12.5*13.5	115				
15	12.5*13.5	130	12.5*13.5	125				
22	12.5*16.5	165	12.5*16.5	165				
33	16*16.5	235	16*16.5	235				
47	18*16.5	280	18*16.5	300				

I~ = Rated ripple current (mA) (105°C, 120Hz) I~ = 额定纹波电流 (mA) (105°C, 120Hz)

■ 额定纹波电流的频率系数

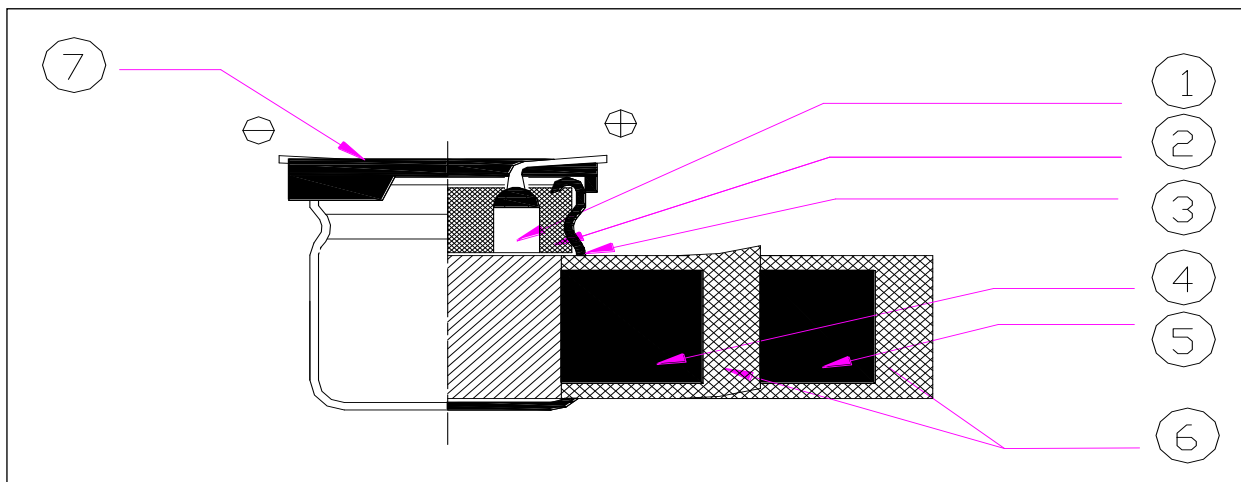
Frequency coefficient of ripple current

Frequency 频率	50Hz	120Hz	300Hz	1KHz	≥ 10KHz
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Coefficient 系数	0.80	1.00	1.25	1.40	1.60
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五、构造图及材料表 Frame drawing and materials



序号 No.	部件名称 Parts	材料名称 Material	主要供应厂家名称 Main supply Factory
1	引出线	铝线 LG3+镀锡铜钢线 AL- wire LG3+Tin- plating of copper cover steel	全用电子有限公司 QUANYONG ELECTRONIC CO., LTD.
2	橡胶塞	丁基橡胶 IIR rubber	韩国 JCC JCC, Co. (KOREA)
3	PE 铝壳 PE- CASE	99.5%纯度铝 AL -99.5%	韩国 DN DN CO.(KOREA)
4	阳极箔 AL – foil(+)	99.99%或 99.98%形成 铝箔 Formed AL 99.98% or 99.98%	日本 JCC 公司 JCC Co. (JAPAN)
5	阴极箔 AL – foil(-)	99.7%铝箔 Etched AL 99.7%	韩国 JCC 公司 JCC Co. (KOREA)
6	电解纸 Separstor paper	电解电容器纸 Electrolytic Capacitor paper	日本 NKK 公司 NKK Co.(Japan)

7	座板 BASE	PPS	韩国 JS 公司 JS Co.(KOREA)
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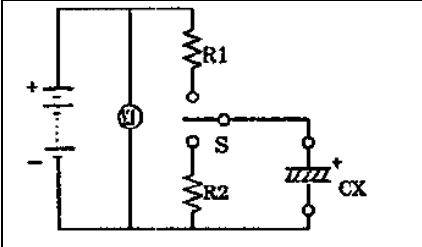
六、试验方法及要求 Tests

1	系列号(SERIES)	CDJVD 系列(CDJVD SERIES)																								
2	额定电压 (rated voltage)	63~450V																								
3	工作温度范围 Operating temperature range operating	工作温度范围是指电容器在额定电压下能持续工作的所允许外部环境的温度范围 operating temperature range is the range of ambient temperature at which the capacitor can be operated continuously at rated voltage SPEC:-55~+105°C (63~100V) -40~+105°C (160~450V)																								
4	电容容量 capacitance	测量等效电路图 measuring circuit equivalent series circuit																								
		测量温度 20°C	measuring temperature																							
		测量频率 120HZ	measuring frequency																							
		测量电压 0.5Vrms	measuring voltage																							
		标称电容容量允许偏差:±20% MAX Nominal Capacitance Tolerance:±20% MAX																								
5	损耗角正切 tangent of the loss angle	损耗角正切的测量应要和测量电容容量一样的条件下进行 Measurement should be made under the same conditions as those given for the measurement of capacitance SPEC: <table border="1" data-bbox="512 1339 1468 1435"> <tr> <td>损耗角正切 (tgδ)</td> <td>U_R (V)</td> <td>63</td> <td>80</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>400~450</td> </tr> <tr> <td></td> <td>tgδ</td> <td>0.10</td> <td>0.10</td> <td>0.09</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> </tr> </table>							损耗角正切 (tgδ)	U _R (V)	63	80	100	160	200	250	400~450		tgδ	0.10	0.10	0.09	0.20	0.20	0.20	0.15
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	tgδ	0.10	0.10	0.09	0.20	0.20	0.20	0.15																		
6	漏电流 leakage current	将额定电压加在电容和 1000±100Ω 的保护电阻上。在充电 2 分钟后, 按下列等式计算漏电流																								
		63~100V				160~450V																				
		I≦0.03 CRUR or 4(uA)取较大者 (2 分钟) C _R : 标称电容容量 (μF) U _R : 额定电压 (V) Whichever is greater(at 20°C,After 2 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V)				I≦0.04CRUR+100(uA) Max. (1 分钟)																				
7	允许最大纹波电流 Maximum permissible ripple current	在规定的某一频率下的最大交流电流, 在该电流下电容器连续工作。即使在测过第 16 项下的耐久性后, 此要求仍要满足。在此, DC 电压加上最大纹波电压小于等于额定电压。 The maximum sinusoidal alternating current of a frequency specified below, at which the capacitor can be operated continuously. This requirement shall be satisfied even after the measurement of clause 16(electrical endurance) Where(DC voltage +peak ripple voltage)≤rated voltage																								

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8	温度特性 Characteristics of temperature	步骤 step	温度 temperature	持续时间 Duration			
		1	20±2°C	15 分钟 15 min			
		2	最低工作温度 minimum operating temperature	2 小时 2 hours			
		3	20±2°C	15 分钟 15 min			
		4	最高工作温度 maximum operating temperature	2 小时 2 hours			
		步骤 1: 测量容量, 损耗角正切和阻抗					
		Step1: Capacitance, tangent of the loss angle impedance shall be measured.					
		步骤 2: 在电容器存放 2 小时后, 测量容量, 损耗角正切和阻抗					
		Step2: After the capacitor being stored for 2hours, Capacitance, tangent of the loss angle and impedance shall be measured.					
		步骤 3: 电容器在 20±2°C下存放 15 分钟					
Step3: The capacitor being stored fro 15min at20±2°C							
步骤 4: 在电容器存放 2 小时后, 测量容量和漏电流。							
Step4: After the capacitor being stored for 2hours, capacitance and leakage current shall be measured							
额定电压 rated voltage	63	80	100	160	200	250	400~450
Z-(-25°C/Z(+20°C)	2	2	2	3	3	3	6
Z-(-40°C/Z(+20°C)	3	3	3	6	6	6	10
Z-(-55°C/Z(+20°C)	4	4	4	-----	-----	-----	-----

9	浪涌测试 Surge test	<p>在规定温度下，循环测试 1000 次，每次充电 30±5 秒，在放电大约 5 分 30 秒。在标准温度条件下存放使其稳定，然后测试。</p> <p>The capacitor shall be subjected to 1000cycles at a temperature specified below, each consisting of a charge period of 30±5sec, followed by a discharge period of approx. 5min30sec. And the capacitor shall be stored under standard conditions thermal to obtain stability,after which measurements shall be made.</p> <p>measurement circuit(测试电路图)</p>																						
																								
		<table border="1"> <tr> <td>VS:浪涌电压 Surge voltage</td> <td>V1:直流电压 DC voltmeter</td> </tr> <tr> <td>R1:保护电阻 (1KΩ) Protective series resistor</td> <td>R2:放电电阻器 Discharge resistor</td> </tr> <tr> <td>CX:测试电容 Test capacitor</td> <td>S:开关 Switch</td> </tr> </table>	VS:浪涌电压 Surge voltage	V1:直流电压 DC voltmeter	R1:保护电阻 (1KΩ) Protective series resistor	R2:放电电阻器 Discharge resistor	CX:测试电容 Test capacitor	S:开关 Switch																
		VS:浪涌电压 Surge voltage	V1:直流电压 DC voltmeter																					
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CX:测试电容 Test capacitor	S:开关 Switch																							
<p>SPEC: 1) $\Delta C/C \leq 15\%$ 2) $\text{tg}\delta < \text{规定值}$ 3) 电压</p>																								
<table border="1"> <tr> <td>RATED VOLTAGE(V_{DC})</td> <td>63</td> <td>80</td> <td>100</td> <td>160</td> <td>200</td> </tr> <tr> <td>SURGE VOLTAGE(V_{DC})</td> <td>79</td> <td>100</td> <td>125</td> <td>200</td> <td>250</td> </tr> <tr> <td>RATED VOLTAGE(V_{DC})</td> <td>250</td> <td>400</td> <td>420</td> <td>450</td> <td>----</td> </tr> <tr> <td>SURGE VOLTAGE(V_{DC})</td> <td>300</td> <td>450</td> <td>470</td> <td>500</td> <td>----</td> </tr> </table>	RATED VOLTAGE(V _{DC})	63	80	100	160	200	SURGE VOLTAGE(V _{DC})	79	100	125	200	250	RATED VOLTAGE(V _{DC})	250	400	420	450	----	SURGE VOLTAGE(V _{DC})	300	450	470	500	----
RATED VOLTAGE(V _{DC})	63	80	100	160	200																			
SURGE VOLTAGE(V _{DC})	79	100	125	200	250																			
RATED VOLTAGE(V _{DC})	250	400	420	450	----																			
SURGE VOLTAGE(V _{DC})	300	450	470	500	----																			

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10	端子强度 Terminal strength	<p>1) 拉力(tensile)</p> <table border="1"> <thead> <tr> <th>d(mm)</th> <th>[N]</th> <th>Duration time</th> </tr> </thead> <tbody> <tr> <td>0.3<d≤0.5</td> <td>5</td> <td rowspan="3">10±2sec(秒)</td> </tr> <tr> <td>0.5<d≤0.8</td> <td>10</td> </tr> <tr> <td>0.8<d≤1.25</td> <td>20</td> </tr> </tbody> </table> <p>2) 抗弯强度 (Bending) 端子应该在每一方向上折弯一次，总共两次 The terminal shall be subjected to 1 bend in each direction to give a total 2 bends.</p> <table border="1"> <thead> <tr> <th>d(mm)</th> <th>[N]</th> </tr> </thead> <tbody> <tr> <td>0.3<d≤0.5</td> <td>2.5 (0.25KG)</td> </tr> <tr> <td>0.5<d≤0.8</td> <td>5.0 (0.51KG)</td> </tr> <tr> <td>0.8<d≤1.25</td> <td>10.0(1.0KG)</td> </tr> </tbody> </table> <p>端子没有破损或松动 SPEC: No breaking and loosening of terminal</p>	d(mm)	[N]	Duration time	0.3<d≤0.5	5	10±2sec(秒)	0.5<d≤0.8	10	0.8<d≤1.25	20	d(mm)	[N]	0.3<d≤0.5	2.5 (0.25KG)	0.5<d≤0.8	5.0 (0.51KG)	0.8<d≤1.25	10.0(1.0KG)
		d(mm)	[N]	Duration time																
0.3<d≤0.5	5	10±2sec(秒)																		
0.5<d≤0.8	10																			
0.8<d≤1.25	20																			
d(mm)	[N]																			
0.3<d≤0.5	2.5 (0.25KG)																			
0.5<d≤0.8	5.0 (0.51KG)																			
0.8<d≤1.25	10.0(1.0KG)																			
11	可焊性 solderability	<p>焊料(Solder) : H60A. H60S or(或)H63A 焊接温度(Solder temperature) : 245±2°C 浸入时间(Immersion time) : 3±0.5sec(秒) 浸入深度(Immersion depth) : 2mm 熔化: 松香在酒精的浓度是 25% Flux: 25% by weight of rosin in ethanol 从含浸处到顶部，至少要有 3/4 的部分覆盖有新焊料 SPEC:1)3/4 of the circumference of the surface up to the immersed shall be covered with new solder.</p>																		

12	耐焊接热 Resistance to soldering heat	焊料(Solder) : H60A, H60S or(或)H63A 焊槽温度(Solder temperature) : 260±5°C(or 或 350±10°C) 浸入时间(Immersion time) : 10±1sec(秒) (or 或 3.5±0.5sec) 绝热屏蔽板的厚度 (Thickness of heat shunt:1.6mm) : 1.6mm SPEC:1) 电容量变化 Change in capacitance: ±10%初始值以内 Within±10% of the initial value 2) 损耗角正切 tangent of the loss angle: 小于等于初始规定值 The initial specified value or less 3) 漏电流 leakage current: 小于等于初始规定值 The initial specified value or less
13	抗振性 Vibration	试验电容器的耐振性。在整个频率范围内, 从 10 赫兹到 55 赫兹, 然后再回到 10 赫兹, 就这样在一分钟内往返循环。振幅为 1.5mm。在三个垂直方向上, 每一方向要持续 2 小时, 总共 6 小时 Only endurance conditioning by sweeping shall be made. The entire frequency range, from 10 to 55Hz and return to 10Hz, shall be transversed in 1min. Amplitude(total excursion)1.5mm, This motion shall be applied for a period of 2hours in each of3 mutually perpendicular directions(a total of 6 hours) SPEC:1) 电容量的变化(change in capacitance) : ±5%初始值以内(within ±5%of the initial value) 2) 无可见损伤(No visible damage)

产品规格书 Product Specification

接上表

14	稳态湿热 Damp heat	电容器要在温度 40±2°C, 相对湿度 90%到 95%条件下存放 240±8 个小时。然后在标准条件下放 1 到 2 小时后进行测量。the capacitor shall be stored at a temperature of 40±2°C and relative huidity of 90 to 95% for 240±8hours。And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2hours, after which measurements shall be made SPEC:1) 电容量的变化 change in capacitance: ±15%初始值以内 within ±15%of the initial value; 2)损耗角正切 tangent of loss angle: 小于等于初始规定值 The initial specified value or less; 3)漏电流 leakage current: 小于等于初始规定值 The initial specified value or less
15	高温储存 shelf life	在 105°C温度下不外加电压贮存, 电容器存放 1000 小时。然后在标准条件下放 1 到 2 小时后进行测量, 并且在测漏电流前, 必须满足下列条件。The capacitor shall be stored at 105°C temperature specified below for1000hours.During which time no voltage shall be applied. And then the capacitor shall be subjected to standard atmospheic conditions for 1 to2hours, after which measurements shall be made, Prior to the measurement of leakage current, following conditioning may be made. SPEC:1) 电容量的变化 change in capacitance: ±30%初始值以内 within ±30%of the initial value;

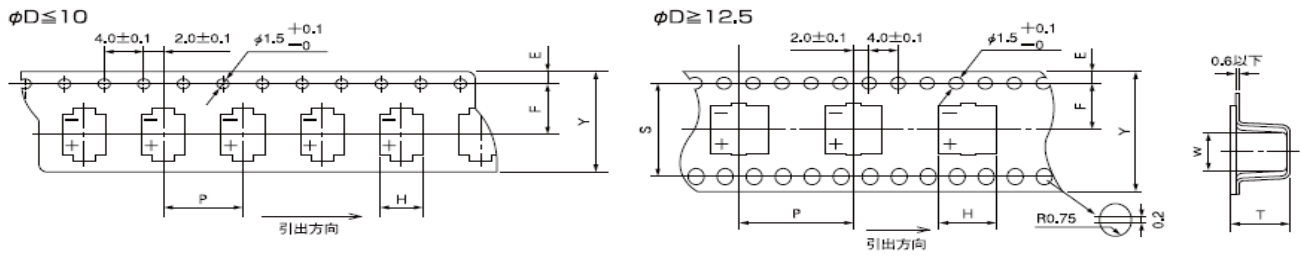
		<p>2) 损耗角正切 tangent of loss angle: $\pm 300\%$ 初始规定值以内 within $\pm 300\%$ of the initial value;</p> <p>3) 漏电流 leakage current: 小于等于初始规定值 The initial specified value or less</p>
16	<p>耐久性 load life</p>	<p>在 $105 \pm 2^\circ\text{C}$ 下, 电容器加额定电压 2000~8000 小时。在标准条件下放 1 到 2 小时后进行测量。</p> <p>The rated voltage shall be applied continuously to the capacitor at maximum operating temperature $105 \pm 2^\circ\text{C}$ for 2000~8000 hours. And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurement shall be made.</p> <p>$\Phi D=4, 5$ 和 6.3 为 2000 小时; $\Phi D=8, 10$ 为 5000 小时; $\Phi D=12.5, 16$ 和 18 为 8000 小时</p> <p>SPEC:1) 电容量的变化 change in capacitance: $\pm 30\%$ 初始值以内 within $\pm 30\%$ of the initial value;</p> <p>2) 损耗角正切 tangent of loss angle: $\pm 300\%$ 初始规定值以内 within $\pm 300\%$ of the initial value;</p> <p>3) 漏电流 leakage current: 小于等于初始规定值 The initial specified value or less</p>

七、标志 Marking (见外形图及尺寸表)

八、片式铝电解电容的编带

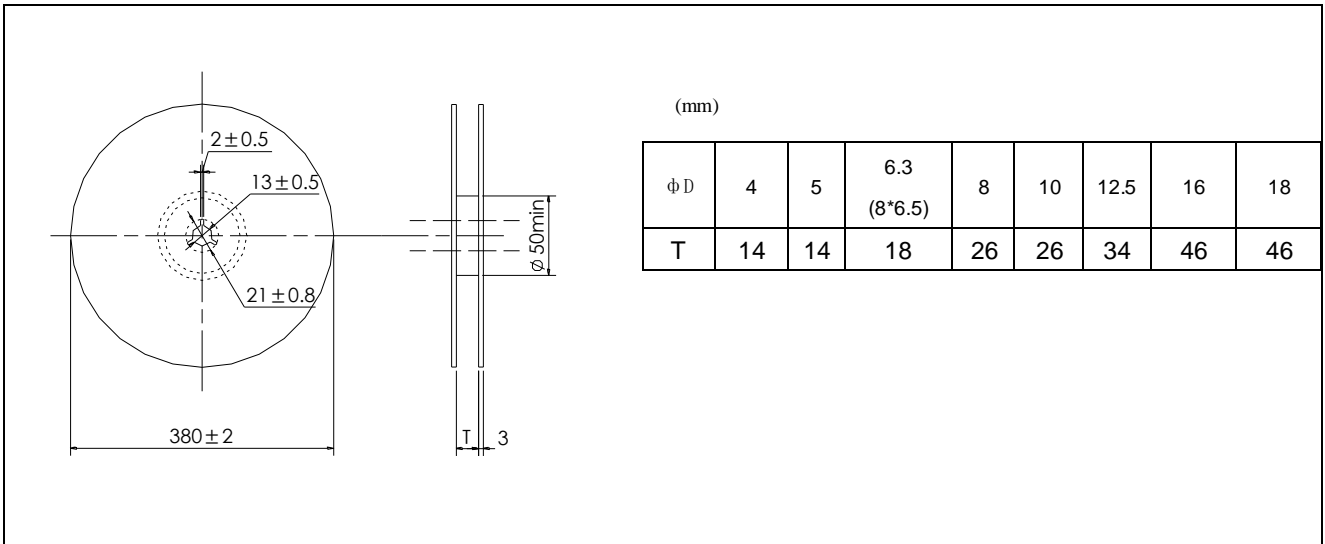
V-Chip Type Aluminum Electrolytic Capacitors

编带 Carrier tape



$\phi D \times L$	4x5.4	5x5.4	6.3x 5.4	6.3x 7.7	6.3* 10.5	8x 10.5	8x 12.5	10x 10.5	10x 12.5	12.5x 13.5	12.5x 16.5	16x 16.5	18x 16.5	18x 21.5	(mm)
W	12.0	12.0	16.0	16.0	16.0	24.0	24.0	24.0	24.0	32.0	32.0	44.0	44.0	44.0	
P	8.0	12.0	12.0	12.0	12.0	16.0	16.0	16.0	16.0	24.0	24.0	28.0	32.0	32.0	
F	5.5	5.5	7.5	7.5	7.5	11.5	11.5	11.5	11.5	14.2	14.2	20.2	20.2	20.2	
A ₀	5.0	6.0	7.0	7.0	7.0	8.7	8.7	10.7	10.7	13.2	13.2	17.5	19.5	19.5	
B ₀	5.0	6.0	7.0	7.0	7.0	8.7	8.7	10.7	10.7	13.2	13.2	17.5	19.5	19.5	■ 编带
T ₂	5.8	5.8	5.8	8.0	11.0	11.0	13.3	11.0	13.3	14.3	17.3	17.3	17.8	22.5	带

包装盘 Reel



■ Package quantity 包装数量

$\Phi D \times L$	Quantity / Reel 数量 / 每盘	pcs/ Small packing box 数量/小包装箱	pcs/Large packing box 数量/大包装箱
4×5.4	2000pcs	24000pcs	48000pcs
5×5.4	1000pcs	12000pcs	24000pcs
6.3×5.4、6.3×7.7、8×6.5	1000pcs	10000pcs	20000pcs
8×10.5、10×10.5	500pcs	3500pcs	7000pcs
6.3×10.5	800pcs	8000pcs	16000pcs
8×12.5	400pcs	2800pcs	5600pcs
10×12.5	400pcs	2800pcs	5600pcs
12.5×13.5	250pcs	2500pcs	5000pcs
12.5×16.5	200pcs	800pcs	1600pcs
16×16.5	200pcs	800pcs	1600pcs
18×16.5	175pcs	700pcs	1400pcs
18×21.5	125pcs	500pcs	1000pcs

CDJVD 型产品承认书

参数 项目	电压: 400 V	容量: 6.8 uF	容量误差: ±20%	温度范围: -40℃~+ 105℃						
外型尺寸	直径 D: <u>10 mm</u> 高度 L: <u>12.5+0.5-0.5mm</u> 脚距: <u>5.0mm</u>									
性能	电容量 C: <u>5.44~8.16</u> (uF) 损失 (tgδ): <u>15</u> %(Max) 漏电 (I): <u>208.8</u> uA (Max)									
贮存试验	(105℃ 1000 小时试验后)		容量变化率: ±30%初始值以内 损失值 ≤ 300%初始规定值 漏电流 ≤ 初始规定值							
寿命试验	(105℃ 5000 小时试验后)		容量变化率: ±30%初始值以内 损失值 ≤ 300%初始规定值 漏电流 ≤ 初始规定值							
初始测试(25±3℃)										
No.	1	2	3	4	5	6	7	8	9	10
C	6.74	6.69	6.75	6.76	6.77	6.69	6.65	6.73	6.71	6.74
tgδ %	5.42	5.36	5.47	5.28	5.39	5.31	5.35	5.34	5.32	5.31
LC	16.2	14.5	15.6	15.2	15.1	15.5	15.7	15.3	15.2	15.9
制样: 赵美利					审核: 施华					批准: 李洋
结论: 1. <input type="checkbox"/> 承认 2. <input type="checkbox"/> 有条件承认 3. <input type="checkbox"/> 退料					客户承认章: 客户签发_____年 月 日					