

# UD 片式铝电解电容

## UD Chip Type Aluminum Electrolytic Capacitors



### 产品特点 Features

- 产品直径  
Case diameter  $\Phi$  6.3mm □  $\Phi$  12.5mm
- 适用于再回流焊  
Reflow soldering is available
- 适用于高密度表面组装  
Available for high density surface mounting
- 长寿命105°C 6000小时标准品  
Life time 105°C 6000hrs standard product
- 性能稳定, 可靠性高  
High stability and reliability
- ROHS指令已对应完毕  
Adapted to the RoHS directive

### 主要技术性能 Specification

项目 Item	特性 Performance Characteristics			
使用温度范围 Operating temperature range	-45°C □ +105°C			
额定电压范围 Rated voltage range	160 □ 450V.DC			
标称容量范围 Nominal capacitance range	1 $\mu$ F □ 22 $\mu$ F			
标称容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)			
漏电流 Leakage current	I=0.04CV( $\mu$ A)+100( $\mu$ A)after 2 minutes I=Leakage Current( $\mu$ A) C=Nominal Capacitance( $\mu$ F) V=Rated Voltage(V)			
损耗角正切值 (tg $\delta$ ) Dissipation factor (+20°C, 120Hz)	U <sub>R</sub> (V)	160 □ 200	250 □ 400	450
	tg $\delta$	0.20	0.25	0.30
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	Rated Voltage(V)	160 □ 200	250 □ 400	450
	Z-25°C/Z+20°C	6	10	12
	Z-55°C/Z+20°C			
耐久性 Load life	在105°C环境中, 连续施加额定电压6000小时, 常温恢复16小时, 电容器满足以下要求: In 105°C degrees Celsius environment, continuous application of rated voltage for 6000 hours, After 16 hours at room temperature, the capacitors shall meet the following requirements: Capacitance Change: ± 30%初始值以内 Within ± 30% of the initial value Dissipation Factor : ≤ 300%初始值以内 Not more than 300% of the specified value Leakage Current : ≤ 300%初始值以内 Within 300% of initial specified value			
高温贮存 Shelf life	105°C贮存1000小时后, 放置16小时, 电容器应满足以下要求: After storage for 1000hrs at 105°C, then resumed 16 hours, the capacitors shall meet the following requirements: Capacitance Change: ± 30%初始值以内 Within ± 30% of the initial value Dissipation Factor : ≤ 300%初始值以内 Not more than 300% of the specified value Leakage Current : ≤ 300%初始值以内 Within 300% of initial specified value			

### 外形图及尺寸图 Case size table

Fig. 1 ( $\Phi$  6.3~ $\Phi$  10)

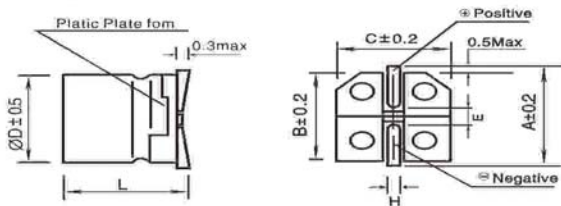
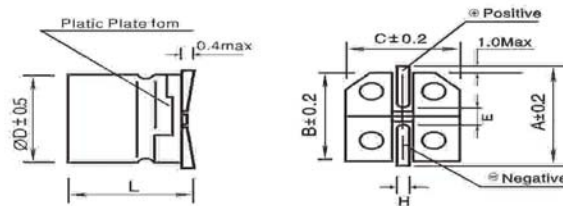


Fig. 2 ( $\geq \Phi$  12.5)



ΦD	L	A	B	C	E	H	Fig.No.
6.3	10.2± 0.3	7.2	6.6	6.6	2.1	0.5□0.9	1
8	10.2± 0.5	9.1	8.3	8.3	3.1	0.8□1.1	1
8	12.5± 0.5	9.1	8.3	8.3	3.1	0.8□1.1	1
10	12.5± 0.5	11.1	10.3	10.3	4.5	0.8□1.1	1
10	12.5± 0.5	11.1	10.3	10.3	4.5	0.8□1.1	1
12.5	12.5± 0.5	13.7	13.0	13.0	4.4	1.0□1.4	2

## ■ 尺寸 Dimensions

WV	160			200			250			400			450		
μ F壳号	D× Lmm	tanδ	mA	D× Lmm	tanδ	mA	D× Lmm	tanδ	mA	D× Lmm	tanδ	mA	D× Lmm	tanδ	mA
1							6.3× 10.2	0.25	10	6.3× 10.2	0.25	9	8× 10.2	0.30	15
1.5							6.3× 10.2	0.25	14	6.3× 10.2	0.25	11	8× 10.2	0.30	18
2.2							6.3× 10.2	0.25	16	6.3× 10.2	0.25	13	8× 10.2	0.30	20
						8× 10.2				0.25	15				
3.3							6.3× 10.2	0.25	18	8× 10.2	0.25	20	10× 10.2	0.30	25
						8× 10.2	0.25	21							
4.7				8× 10.2	0.20	25	8× 10.2	0.25	26	8× 12.5	0.25	33	10× 12.5	0.30	39
						10× 12.5				0.25	35				
5.6				8× 10.2	0.20	27	8× 10.2	0.25	28	10× 12.5	0.25	43	10× 12.5	0.30	48
6.8	6.3× 10.2	0.20	26	8× 10.2	0.20	30	10× 10.2	0.25	34	10× 12.5	0.25	48	10× 12.5	0.30	53
	8× 10.2	0.20	30												
8.2	8× 10.2	0.20	35	8× 10.2	0.20	30	10× 10.2	0.25	37	12.5× 13.5	0.25	62			
10	8× 10.2	0.20	43	10× 10.2	0.20	40	10× 10.2	0.25	45	12.5× 13.5	0.25	69			
	10× 10.2	0.20	50												
12	10× 10.2	0.20	53	10× 10.2	0.20	45	10× 10.2	0.25	50						
15	10× 10.2	0.20	55	10× 10.2	0.20	58	10× 10.2	0.25	67						
22	10× 12.5	0.20	63												

•尺寸ΦD×L(mm), 纹波电流(mA rms)於 105°C 120Hz

## ■ 纹波电流修正系数 Multiplier For Ripple Current

频率 Frequency	120HZ	1KHZ	10KHZ	100KHZ
系数 Coefficient	1.00	1.25	1.40	1.60

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Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

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