UW 片式鋁電解電容

UW Chip Type Aluminum Electrolytic Capacitors

■ 產品特點 Features

◎ 長壽命品 Long life product
◎ 產品直徑 Case diameter Φ 4mm~ Φ 18mm
◎ 適用于再回流焊 Reflow soldering is available
◎ 適用于高密度表面組裝 Available for high densify surface mounting
◎ 壽命105℃ 10000 小時長壽命品 Life time 105℃ 10000hrs Long life product
◎ 性能穩定，可靠性高 High stability and reliability
◎ ROHS 指令已對應完畢 Adapted to the RoHS directive

■ 主要技術性能 Specifications

項目 Items	特 性 Characteristics								
工作温度範圍 Category Temperature Range	−40℃~+105℃								
額定電壓範圍 Rated Voltage Range	6.3~450V.DC								
標稱電容量範圍 Nominal Capacitance Range	1μF ~ 1000μF								
標稱電容量允許偏差 Nominal Capacitance Tolerance	±20%（120Hz, +20℃）								
泄漏電流範圍 Leakage Current(MAX)	6.3V~50Vdc: I≤0.03CV(μA) or 4(μA) 取較大者 whichever is greater(after 2 minutes)			160V~450Vdc: I≤0.04CV+100(μA) (after 2 minutes)					(20℃)
	I=Leakage Current(μA) C=Nominal Capacitance(μF) V= Rated Voltage(V)								
損耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50	160~250	400~450
	Tan δ	0.32	0.28	0.26	0.16	0.14	0.14	0.20	0.24
耐久性 Load Life	在105℃環境中，連續施加額定電壓10000H，常温恢復16小時後進行測量時，電容器應滿足以下要求。 In 105℃ degrees Celsius environment,continuous application of rated voltage for 10000 hours,After 16 hours were measured at room temperature,the capacitors shall meet the following requirements								
	Rated Voltage(V)	6.3V~50V				160V~450V			
	Capacitance Change	±30%初始值以內 Within ±30% of the initial value				±20%初始值以內 Within ±20% of the initial value			
	Dissipation Factor	≤300%初始值以內 Not more than 300% of the specified value				≤200%初始值以內 Not more than 200% of the specified value			
	Leakage Current	≤初始規定值 Not more than the specified value				≤初始規定值 Not more than the specified value			
高温貯存 Shelf Life	在105℃環境中，無負荷放置1000小時，常温恢復16小時後進行測量時，電容器應滿足以下要求。 In 105℃ degrees Celsius environment,without load for 1000 hours,After 16 hours were measured at room temperature,the capacitors shall meet the following requirements								
	Rated Voltage(V)	6.3V~50V				160V~450V			
	Capacitance Change	±30%初始值以內 Within ±30% of the initial value				±20%初始值以內 Within ±20% of the initial value			
	Dissipation Factor	≤300%初始值以內 Not more than 300% of the specified value				≤200%初始值以內 Not more than 200% of the specified value			
	Leakage Current	≤300初始規定值 within 300% of initial specified value				≤200初始規定值 within 200% of initial specified value			
耐焊接熱 Resistance to Soldering Heat	在250℃的條件下,電容器在熱板上保持30秒,然後從熱板上取出電容器,讓其在室温下恢復,電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:								
	Capacitance Change	±10%初始值以內	Within ±10% of the initial value						
	Dissipation Factor	≤初始規定值	Not more than the initial specified value						
	Leakage Current	≤初始規定值	Not more than the initial specified value						
低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	Roted Voltage (V)	6.3	10	16	25	35	50	160~250	400~450
	Z-25℃/Z+20℃	4	3	2	2	2	2	6	6
	Z-40℃/Z+20℃	10	8	6	4	3	3	10	18
其它 Other	IEC 60384 JIS-C5101								

■ 尺寸圖 Dimensions

單位： mm

Fig. 1 (Φ4~Φ10)

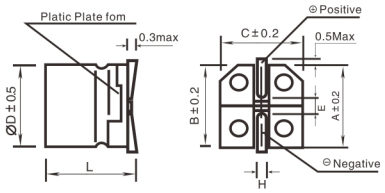
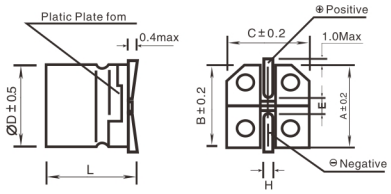


Fig. 2 (≥Φ12.5)



ΦD	L	A	B	C	E	H	Fig.No.
6.3	7.7±0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
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	10.2±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	13.5±0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
12.5	16±0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
16	16.5±0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
16	21.5±0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
18	16.5±0.5	20.0	19.0	19.0	6.4	1.0~1.4	2
18	21.5±0.5	20.0	19.0	19.0	6.4	1.0~1.4	2

■ 標準品一覽表 Standard Size

WV	6.3			10			16			25		
uF/殼號	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA
10												
22												
33										6.3×7.7	0.16	48
47							6.3×7.7	0.26	50			
100	6.3×7.7	0.32	60	6.3×5.4	0.28	70				8×10.2	0.16	119
220				8×10.2	0.28	145	8×10.2	0.26	159			
330	8×10.2	0.32	165				8×10.2	0.26	194			
470	8×10.2	0.32	196				10×10.2	0.26	260			
1000	10×10.2	0.32	315									

WV	35			50			160			200		
uF/殼號	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA
1												
2.2												
3.3												
4.7												
10	6.3×7.7	0.14	31				10×10.2	0.20	95	12.5×13.5	0.20	110
15							12.5×13.5	0.20	140	12.5×13.5	0.20	140
22	6.3×7.7	0.14	43				12.5×16	0.20	200	12.5×16	0.20	200
33	6.3×8.7	0.14	59	8×10.2	0.14	79	16×16.5	0.20	280	16×21.5	0.20	250
										18×16.5	0.20	245
47	8×10.2	0.14	90	8×10.2	0.14	95	16×16.5	0.20	320	16×21.5	0.20	330
										18×21.5	0.20	350
56							16×16.5	0.20	349	18×21.5	0.20	382
68							16×21.5	0.20	400	18×21.5	0.20	430
100	8×10.2	0.14	132	10×10.2	0.14	155	18×21.5	0.20	560			
220	10×10.2	0.14	220									

WV	250			400			450		
uF/殼號	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA
1	6.3×10.2	0.20	20	6.3×10.2	0.24	17	8×10.2	0.24	20
2.2	6.3×10.2	0.20	31	8×10.2	0.24	30	10×10.2	0.24	35
3.3	8×10.2	0.20	43	10×10.2	0.24	39	10×10.2	0.24	39
4.7	8×10.2	0.20	52	10×10.2	0.24	56	10×12.5	0.24	59
6.8	10×10.2	0.20	72	12.5×13.5	0.24	72	16×16.5	0.24	115
10	12.5×13.5	0.20	110	16×16.5	0.24	140	16×16.5	0.24	140
15	12.5×16	0.20	150	16×21.5	0.24	170	16×21.5	0.24	170
22	16×16.5	0.20	220	16×21.5	0.24	230	18×21.5	0.24	230
33	18×16.5	0.20	270						
47	16×21.5	0.20	330						
	18×21.5	0.20	350						
56	18×21.5	0.20	400						

mA額定紋波電流Rated ripple current(mA,105℃, 120Hz)

■ 紋波電流補正系數 Multiplier For Ripple Current

● 頻率系數 Frequency coefficient

頻率 Frequency	120Hz	1kHz	10kHz	100kHz
系數 Coefficient	1.00	1.60	1.80	2.00

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