

RT 特性 FEATURE

- * 壽命: 105°C 3000小時
Life time: 105°C 3000 hours
- * 寬溫度範圍
Wide operating temperature range
- * 適用於高可靠電路
Ideally suited for high stability circuits



特性表 SPECIFICATIONS

項目Item	主要特性Performance Characteristics										
額定工作電壓範圍 Rated Voltage Range	6.3V.DC ~ 100V.DC	160V.DC ~ 500V.DC									
使用溫度範圍 Operating Temperature Range	-40°C ~ +105°C	-25°C ~ +105°C									
標稱靜電容量範圍 Nominal Capacitance Range	0.47 µF ~ 10000 µF	1 µF ~ 220 µF									
靜電容量允許偏差 Capacitance Tolerance	± 20%(M, +20°C, 120Hz)										
漏電流 Leakage Current	額定工作電壓 (V) Rated working voltage	6.3 - 100	160 - 500								
	漏電流 Leakage Current	施加額定電壓2分鐘: I ≤ 0.01CV 或 3 µA (取較大者) 20°C After application of rated voltage for 2 minutes: I ≤ 0.01CV or 3 µA (Whichever is greater) 20°C	施加額定電壓2分鐘: I ≤ 0.03CV µA 20°C After application of rated voltage for 2 minutes: I ≤ 0.03CV µA 20°C								
		C: 標稱靜電容量(µF); Nominal Capacitance in µF;	V: 額定工作電壓 (V) Rated Working Voltage in V								
損耗角正切值(tan δ) Dissipation Factor	額定工作電壓(V) Rated working voltage	6.3	10	16	25	35	50	63	100	160~500	
	tan δ (MAX) (20°C, 120Hz)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.08	0.15	
標稱靜電容量大于1000 µF者, 其標稱靜電容量每增加1000 µF, 損耗角正切值增加0.02 When capacitance is over 1000 µF, tan δ shall be added 0.02 with increase of every 1000 µF											
溫度特性 Temperature Stability	額定工作電壓(V) Rated working voltage	6.3	10	16	25	35	50	63	100	160~250	350~450
	阻抗比(120Hz) Impedance Ratio	-25°C/Z+20°C	4	3	2			3		4	6
		-40°C/Z+20°C	8	6	4	3			—		
高溫負荷特性 Load Life	在+105°C環境中施加工作電壓和最大允許紋波電流2000小時后, 電容器的性能符合下表要求: After application of rated working voltage and maximum permissible ripple current specified of +105°C for 2000 hours Capacitors meet the characteristics requirement measured at +20°C listed:										
	靜電容量變化 Capacitance Change	初始值的 ± 20% 以內 Within ± 20% of the initial measured value								外徑 Case Dia	時間(hrs) Life Time
	漏電流 Leakage Current	不大于初期規定值 Less than the initial specified value								φ D ≤ 8	2000
損耗角正切值 tan δ	不大于初期規定值的200% Less than 200% of the initial specified value								φ D ≥ 10	3000	
高溫貯存特性 Shelf Life	在+105°C環境中無負荷放置1000小時后, 電容器的性能符合高溫負荷特性中所列的規定值 After Leaving capacitor under no load at +105°C for 1000 hours, Capacitors meet the characteristics listed above.										

* 紋波倍乘因子 MULTIPLIER FOR RIPPLE CURRENT

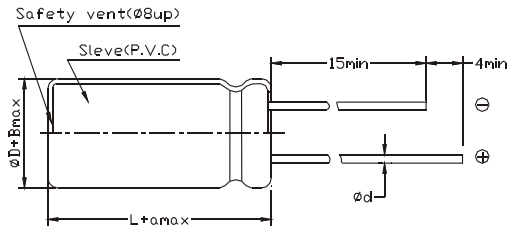
* 頻率因子 Frequency coefficient

WV(V)	Freq(Hz)	50(60)	100(120)	1K	10K	≥100K
6.3~100		0.20	0.40	0.70	0.80	1.00
160~500		0.25	0.50	0.80	0.90	1.00

鋁電解電容器

ALUMINUM ELECTROLYTIC CAPACITOR(CD82 RT)

• 外形圖及尺寸表 CASE SIZE TABLE



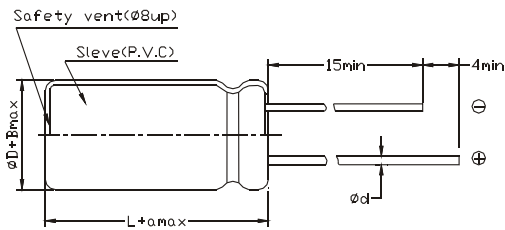
β	0.5			1.0			
ϕD	5	6.3	8	10	12.5	16	18
$F \pm 0.5$	2.0	2.5	3.5	5	7.5		
$\phi d \pm 0.1$	0.5			0.6		0.8	
α	L < 16: 1.5				L \geq 16: 2.0		

■ RT 尺寸、額定電壓及標稱容量

DIMENSIONS, RATED VOLTAGE AND CAPACITANCE

WV(V) Cap(μ F)	6.3(LA)		10(LB)		16(LC)		25(LD)		35(LE)		50(LF)		63(LG)		100(MA)	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
0.47(R47)											5X11	11			5X11	13
0.68(R68)											5X11	15			5X11	16
1(1R0)											5X11	18			5X11	23
1.5(1R5)											5X11	23			5X11	25
2.2(2R2)											5X11	28			5X11	33
3.3(3R3)											5X11	38			5X11	44
4.7(4R7)							5X11	36	5X11	41	5X11	45	5X11	51	5X11	55
6.8(6R8)							5X11	60	5X11	47	5X11	58	5X11	68	6.3X11	70
10(100)					5X11	52	5X11	60	5X11	66	5X11	76	5X11	83	6.3X11	98
15(150)					5X11	60	5X11	70	5X11	77	5X11	78	6.3X11	90	8X12	110
22(220)	5X11	51	5X11	68	5X11	82	5X11	87	5X11	98	6.3X11	110	6.3X11	130	8X12	170
33(330)	5X11	83	5X11	98	5X11	98	5X11	105	6.3X11	130	6.3X11	160	6.3X11	165	10X12	240
47(470)	5X11	98	5X11	105	5X11	120	6.3X11	120	6.3X11	170	6.3X11	185	8X12	230	10X12	310
68(680)	5X11	110	5X11	120	6.3X11	150	6.3X11	160	6.3X11	190	8X12	230	8X12	250	10X16	440
100(101)	5X11	150	6.3X11	160	6.3X11	190	6.3X11	210	8X12	280	8X12	310	10X12	380	10X20	580
150(151)	6.3X11	180	6.3X11	200	6.3X11	250	8X12	270	8X12	440	10X12	420	10X16	480	12.5X25	680
220(221)	6.3X11	240	6.3X11	260	8X12	330	8X12	360	10X12	480	10X16	600	10X20	700	12.5X25	860
330(331)	6.3X11	310	8X12	380	8X12	400	10X12	530	10X16	650	10X20	800	12.5X20	980	16X25	1080
470(471)	8X12	420	8X12	440	10X12	590	10X16	700	10X20	870	12.5X20	1100	12.5X25	1200	16X30	1300
680(681)	8X12	520	10X12	620	10X16	740	10X20	950	12.5X20	980	12.5X25	1220	16X25	1380	18X30	1680
1000(102)	10X12	690	10X16	800	10X20	1050	12.5X20	1280	12.5X25	1500	16X25	1650	16X30	1800	18X40	1980
1500(152)	10X16	894	10X20	1050	12.5X20	1210	12.5X25	1400	16X25	1600	16X30	1850	18X30	2300		
2200(222)	10X20	1380	12.5X20	1500	12.5X25	1700	16X25	1840	16X30	2200	(16X35) 18X30	2230	18X40	2700		
3300(332)	12.5X20	1650	12.5X25	1820	16X25	1950	16X30	2200	18X30	2500	18X40	2710				
4700(472)	12.5X25	1980	16X25	2100	16X30	2350	18X30	2400	18X40	3100						
6800(682)	16X25	2220	16X30	2400	18X30	2600										
10000(103)	16X30	2730	18X30	2920	18X35	3200										

● 外形圖及尺寸表 CASE SIZE TABLE



ϕD	8	10	12.5	16	18
$F \pm 0.5$	3.5	5		7.5	
$\phi d \pm 0.1$	0.6	0.6		0.8	
L	12	16,20	20,25,30	20,25,30	30

● RT 尺寸、額定電壓及標稱容量 DIMENSIONS, RATED VOLTAGE AND CAPACITANCE

WV(V) Cap(uF)	160(MB)		200(MC)		250(MD)		350(MF)		400(VA)		450(VB)		500(VC)	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
1.0(1R0)							8X12	70	8X12	80	8X12	80		
1.8(1R8)							8X12	75	10X12	85	10X12	100		
2.2(2R)							8X12	80	10X12	90	10X12	110	10X12	110
3.3(3R3)							10X12	100	10X16	110	10X16	150	10X16	150
4.7(4R7)	8X12	70			10X12	100	10X16	150	10X16	150	10X20	180	10X20	180
6.8(6R8)	8X12	80			10X16	110	10X16	180	10X20	180	10X20	180	10X20	180
10(100)	10X16	130	10X16	250	10X16	180	10X20	250	12.5X20	250	12.5X20	280	12.5X20	280
15(150)	10X16	150	10X20	250	10X16	280	12.5X20	280	12.5X20	280	12.5X25	330	12.5X25	350
22(220)	10X20	200	10X20	250	10X20	300	12.5X20	300	12.5X25	310	16X25	330	16X25	350
33(330)	10X20	250	12.5X20	300	12.5X20	350	12.5X25	330	16X25	350	16X30	380	16X30	380
47(470)	12.5X20	300	12.5X20	300	12.5X25	380	16X25	350	16X30	380	18X30	430	18X30	430
68(680)	12.5X25	380	12.5X25	380	16X25	430								
100(101)	16X25	660	16X25	600	16X30	650								
220(221)	16X30	722	18X30	720										

→ 最大允許紋波電流 Max allowable ripple current (mA r.m.s./105°C ,100KHz)

→ 外形尺寸 Case Size D × L(mm)