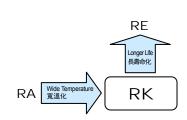
Radial Lead Type

## WIDE TEMPERATURE

RK Series

### 寬溫品

- Wide temperature range of -40~+105°C 適用於 -40~+105°C 的寬溫範圍
- Standard series for general purposes 標準品通用型
- Load life of 2000 hours at 105°C 在 105°C 環境中負荷壽命 2000 小時
- Comply with the RoHS directive 符合 RoHS 指令

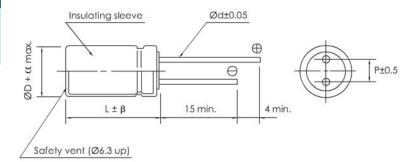




#### ☐ SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性												
Operation Temperature Range 使用温度範圍	-40 ~ +105°C			5 ~ +105°C									
Voltage Range 額定工作電壓範圍	6.3 ~ 100V				160 ~ 4	160 ~ 450V							
Capacitance Range 靜電容量範圍	0.47 ~ 15000μF												
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C												
Leakage Current 漏電流	Leakage current = 0.01CV or 3μA, whichever is greater (after 2 minutes application of rated voltage) 漏電流 = 0.01CV 或 3μA, 取較大值(施加額定工作電壓 2 分鐘後)												
Dissipation Factor (tan δ) 損耗角正切	當標稱靜電容量大流	When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. 當標稱靜電容量大於 1000μF,其標稱靜電容量每增加 1000μF,損耗角正切增加 0.02。  Measurement frequency 測試頻率: 120Hz, Temperature 温度: 20°C  Rated Voltage (V) 額定工作電壓 6.3 10 16 25 35 50 63 100 160~250 350~450											
	tan δ (max.) 最		0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	
	Measurement frequ												
Stability at Low Temperature 低溫特性		(V) 額定工作電		6.3	_	10 3	16 2		25~100 2	160~350 3		400,450 8	
版/盖付性	Impedance Ratio   Z(-25°C) / Z(20°C)   4					6	4				4	_	
Load Life 高溫負荷特性	After 2000 hours (∅5~∅8 products are for 1000 hours) application of the rated voltage at 105°C, they meet the characteristics listed below. 在 105°C 環境中施加額定工作電壓 2000 小時(∅5~∅8 產品為 1000 小時)後,電容器的特性符合下表的要求。  Capacitance Change 靜電容量變化率 Within ±20% of initial measured value 初始值的±20%以内  Dissipation Factor 損耗角正切 ≦200% of initial specified value 不大於規範值的 200%  Leakage Current 漏電流 ≦initial specified value 不大於規範值												
Shelf Life 高溫貯存特性	After leaving capac listed above. 在1											racteristics	
Marking 標識	Printed with white ( 黑色膠管白字印刷					with white	colour o	n greei	n sleeve (F	PET).			

### □ DRAWING (Unit: mm) 外形圖



ØD	5	6.3	<b>8</b> (L≤11.5)	<b>8</b> (L≥16)	10	13	16	18	22	25	
Р	2.0	2.5	3.5		5	.0	7.	.5	10.0	12.5	
Ød		0.5			.8						
β			1.5	2.0							
α			•	0.	.5	•			1	.0	

#### □ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 紋波電流頻率補償系數

Freque	ncy 頻率	50Hz	120Hz	300Hz	1KHz	10KHz~	
Coefficient 系數	0.47 ~ 47μF	0.75	1.00	1.35	1.55	2.00	
	68 ~ 680μF	0.80	1.00	1.25	1.34	1.50	
	1000 ~ 15000μF	0.85	1.00	1.10	1.13	1.15	

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# RK series

#### □ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 規格尺寸及最大允許紋波電流

	WV	6.3		10		16	;	25		35		50		63	
μF	ode 代碼	0J		1A		10	;	1E		1V		1H		1J	
0.47	R47											5 x 11	8	5 x 11	8
0.68	R68											5 x 11	9	5 x 11	9
1	010											5 x 11	11	5 x 11	13
2.2	2R2											5 x 11	20	5 x 11	15
3.3	3R3											5 x 11	30	5 x 11	19
4.7	4R7											5 x 11	33	5 x 11	22
6.8	6R8											5 x 11	42	5 x 11	34
10	100					5 x 11	50	5 x 11	38	5 x 11	41	5 x 11	50	5 x 11	50
22	220			5 x 11	50	5 x 11	54	5 x 11	57	5 x 11	61	5 x 11 (6.3x11.5)	78 (85)	6.3 x 11.5	86
33	330			5 x 11	60	5 x 11	64	5 x 11	69	5 x 11	75	6.3 x 11.5	95	6.3 x 11.5	100
47	470	5 x 11	62	5 x 11	71	5 x 11	80	5 x 11	106	5 x 11 (6.3x11.5)	106 (110)	6.3 x 11.5	125	6.3 x 11.5	130
68	680	5 x 11	80	5 x 11	83	5 x 11	85	5 x 11	114	6.3 x 11.5	121	8 x 11.5	144	8 x 11.5	128
100	101	5 x 11	95	5 x 11	100	5 x 11 (6.3x11.5)	120 (135)	5 x 11 (6.3x11.5)	120 (145)	6.3 x 11.5 (8x11.5)	150 (180)	8 x 11.5 (10x12)	188 (200)	8 x 11.5 (10x12)	200 (295)
220	221	5 x 11	150	5 x 11 (6.3x11.5)	155 (175)	6.3 x 11.5	190	6.3 x 11.5 (8x11.5)	190 (236)	8 x 11.5	270	10 x 12 (10x16)	345 (370)	10 x 12	390
330	331	6.3 x 11.5	170	6.3 x 11.5	200	8 x 11.5	270	8 x 11.5 (10x12)	310 (335)	10 x 12 (8x16)	395 (455)	10 x 16 (10x20)	420 (460)	10 x 20 (13x21)	510 (560)
470	471	6.3 x 11.5	230	6.3 x 11.5 (8x11.5) (10x12)	260 (290) (320)	8 x 11.5	310	8 x 11.5 (8x16) (10x12)	325 (350) (380)	10 x 16 (10x20)	520 (550)	10 x 20	560	13 x 21 (13x25)	650 (700)
680	681	8 x 11.5	314	8 x 11.5 (8x16)	345 (390)	8 x 16 (10x16)	480 (520)	10 x 16	520	10 x 16 (10x20)	550 (590)	13 x 25	720	13 x 25 (16x25)	780 (800)
1000	102	8 x 11.5	380	8 x 11.5 (8x16) (10x12)	400 (425) (585)	8 x 20 (10x16) (10x20)	580 (645) (700)	10 x 16 (10x20) (13x21)	705 (775) (845)	13 x 21 (13x25)	810 (930)	13 x 25 (16x25)	950 (1080)	16 x 25	930
2200	222	10 x 12 (10x16)	630 (690)	10 x 20 (13x21)	760 (815)	10 x 20 (13x21)	735 (760)	13 x 21 (13x25)	890 (1110)	13 x 25 (16x25)	1080 (1260)	16 x 35 (18x35)	1470 (1530)	16 x 31 (18x35)	1565 (2180)
3300	332	10 x 20 (13x21)	845 (920)	13 x 25	1130	13 x 21 (13x25)	980 (1170)	16 x 25	1440	16 x 31 (16x35)	1420 (1480)	18 x 35	1770	22 x 40	2510
4700	472	13 x 25	1240	13 x 25	1280	16 x 25	1320	16 x 31	1650	18 x 35	1900	22 x 40	2340	25 x 40	3000
6800	682	16 x 25	1480	16 x 31	1510	16 x 31	1930	18 x 35	2160	22 x 40	2216	25 x 40	2530		
10000	103	16 x 31	1920	16 x 35	2220	18 x 35	2350								
15000	153	18 x 31	2390												

	WV ode	100	)	160	)	200	)	250	)	350		400	)	45	0
μF 代碼		2A		2C		2D		2E		2V		2G		2W	
0.47	R47	5 x 11	14	5 x 11	12	5 x 11	12	5 x 11	12	6.3 x 11.5	12	6.3 x 11.5	12	6.3 x 11.5	12
0.68	R68	5 x 11	15	5 x 11	13	5 x 11	13	5 x 11	13	6.3 x 11.5	13	6.3 x 11.5	13	8 x 11.5	13
1	010	5 x 11	19	5 x 11	16	5 x 11	16	6.3 x 11.5	16	6.3 x 11.5	16	6.3 x 11.5 (8x11.5)	21 (25)	8 x 11.5	27
2.2	2R2	5 x 11	30	6.3 x 11.5	23	6.3 x 11.5	30	6.3 x 11.5	35	8 x 11.5	38	6.3 x 11.5 (8x11.5)	32 (39)	8 x 11.5	39
3.3	3R3	5 x 11	32	6.3 x 11.5	34	6.3 x 11.5	39	8 x 11.5	42	8 x 11.5	43	6.3 x 11.5 (8x11.5)	40 (45)	8 x 11.5	45
4.7	4R7	5 x 11	38	6.3 x 11.5	40	8 x 11.5	46	8 x 11.5	45	10 x 12	55	8 x 11.5 (10x12)	50 (55)	8 x 11.5 (10x12)	50 (55)
6.8	6R8	5 x 11	52	8 x 11.5	48	8 x 11.5	52	8 x 11.5 (10x12)	52 (57)	10 x 16	62	8 x 16 (10x16)	65 (80)	10 x 16	90
10	100	5 x 11 (6.3x11.5)	66 (73)	8 x 11.5 (10x12)	65 (60)	8 x 11.5 (10x12)	65 (70)	10 x 12 (10x16)	92 (116)	10 x 16	95	10 x 16 (10x20)	95 (105)	13 x 21	125
22	220	6.3 x 11.5	104	10 x 16	96	10 x 16	140	10 x 17 (10x20)	140 (145)	13 x 21	220	13 x 21 (13x25) (16x20)	160 (170) (185)	13 x 25	185
33	330	8 x 11.5	150	10 x 20	155	10 x 20	170	13 x 21	190	13 x 25	215	13 x 25 (16x25)	185 (245)	16 x 20 (16x25)	207 (260)
47	470	10 x 12	190	13 x 21	220	13 x 21	220	13 x 25	250	16 x 25	285	16 x 25 (16x31)	295 (320)	16 x 25 (16x31)	305 (313)
68	680	10 x 16	239	13 x 21	275	13 x 25	270	16 x 25	365	16 x 31	370	16 x 31 (16x35)	350 (405)	16 x 35 (18x31)	435 (450)
100	101	10 x 20	320	13 x 25	355	16 x 25	385	16 x 31	485	18 x 35	485	18x31 (18x35)	420 (540)	18 x 35 (18x40)	520 (560)
220	221	13 x 25	450	16 x 31	660	16 x 35 (18x31)	695 (755)	18 x 35	760						
330	331	13 x 25	625	18 x 35	820	18 x 35 (18x40)	820 (965)								
470	471	16 x 25	780	18 x 40	975	22 x 40	1050				·				
680	681	16 x 35	1021											Case size	Ripple current
1000	102	18 x 40	1344											尺寸	紋波電流

<sup>•</sup>Case size ⊘D×L(mm), ripple current (mA rms) at 105°C, 120Hz ●尺寸⊘D×L(mm), 紋波電流(mA rms)於 105°C, 120Hz

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注:以上所提供的設計及特性參數僅供參考,任何修改不作預先通知。如果在使用上有疑問,請在採購前與我們聯繫,以便提供技術上的協助。

CAT.2014/V5

<sup>●</sup> Please refer to page 16 "Taping Specifications" & page 18 "Lead Forming & Cutting" about the taped or formed product spec. 編帶與引線成型標準請參閱第 16 頁 "編帶標準"及 "第 18 頁引線成型與剪腳"。

<sup>●</sup> Please refer to page 17 "Packaging Specifications" for the minimum package quantity. 最小包裝數量請參閱第 17 頁 "包裝標準"。