

UK series

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- High-temperature resistance, high ripple current.
- 105°C for general purposes, 3000 hours standard product.
- RoHS Compliance
- 耐高溫、高紋波。
- 105°C 3000hours 標準品



SPECIFICATIONS

Items 項 目	Characteristics 特 性														
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)														
Operating Temperature Range 適用溫度範圍	-40 ~ +105℃					-40 ~ +105℃					-25 ~ +105℃				
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC					160 ~ 400VDC					420 ~ 500VDC				
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 ℃)							I ≤ 0.03CV +20 (μA) (After 3 minutes application of DC rated voltage, at 20 ℃)							
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃														
	Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100	120	160~250	350~450	500	
	tan δ(Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.08	0.08	0.20	0.25	0.25	
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF .														
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.														
	Rated oltage(V)	6.3	10	16	25	35	50~100		160~250		350~400		450		
	Z(-25℃)/(20℃)	5	4	3	2	2	2		3		6		15		
	Z(-40℃)/(20℃)	10	8	6	4	3	3		4		-		-		
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 3,000 hours at 105℃.														
	Capacitance Change		Within ± 20% of Initial Value												
	tan δ		200% or less of Initial Specified Value												
	Leakage Current		Initial Specified Value or less												
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.														
	Capacitance Change		Within ± 20% of Initial Value												
	tan δ		200% or less of Initial Specified Value												
	Leakage Current		Initial Specified Value or less												
Standards 參照標準	IEC 60384-4(JIS C 5101-4)														

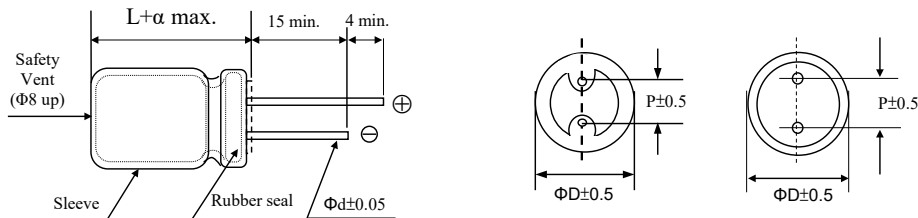
Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Capacitance (μF)	Frequency (Hz)			
		50	120	1K	≥20K
≤ 100	< 100	0.75	1.00	1.57	2.00
	100 ~ 470	0.80	1.00	1.34	1.50
	> 470	0.85	1.00	1.10	1.15
≥ 160	0.47 ~ 1000	0.85	1.00	1.40	1.50

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DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5	16	18	20	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (μF)	V	6.3		10		16		25		35		50		63	
Item		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.47												5x11	12		
1.0												5x11	16		
2.2												5x11	25		
3.3												5x11	35		
4.7								5x11	32	5x11	33	5x11	38		
6.8								5x11	37	5x11	39	5x11	50	5x11	52
10						5x11	44	5x11	45	5x11	49	5x11	56	5x11	68
22	5x11	56		5x11	61	5x11	65	5x11	67	5x11	76	5x11	89	6.3x11	112
33	5x11	68		5x11	79	5x11	81	5x11	85	5x11	93	6.3x11	130	8x11.5	145
47	5x11	80		5x11	89	5x11	97	5x11	100	6.3x11	133	6.3x11	152	8x11.5	174
56	5x11	92		5x11	103	5x11	107	5x11	121	6.3x11	136	6.3x11	171	8x11.5	187
68	5x11	105		5x11	121	5x11	150	5x11	158	6.3x11	173	6.3x11	208	8x11.5	234
100	5x11	113		5x11	145	6.3x11	157	6.3x11	179	8x11.5	197	8x14	270	10x12.5	292
220	5x11	176		6.3x11	223	8x11.5	248	8x11.5	318	10x12.5	347	10x16	583	10x20	693
330	6.3x11	240		6.3x11	275	8x11.5	361	10x12.5	391	10x16	490	10x20	737	12.5x20	770
470	6.3x11	292		8x11.5	339	8x14	427	8x15	523	10x20	627	12.5x20	902	12.5x25	1012
560	8x11.5	350		8x11.5	443	8x14	475	10x16	594	10x20	644	12.5x20	963	12.5x25	1177
680	8x11.5	413		8x11.5	538	8x15	548	10x20	704	12.5x20	770	12.5x25	1040	16x25	1337
1000	8x14	502		10x12.5	645	10x16	768	10x20	919	12.5x20	1194	12.5x25	1485	16x31.5	1848
1500	10x16	669		10x20	798	10x20	993	12.5x20	1155	12.5x25	1370	16x31.5	1810	18x31.5	1975
2200	10x20	912		10x20	988	12.5x20	1231	12.5x25	1447	16x25	1678	16x36	2200	18x35.5	2288
3300	10x20	1154		12.5x20	1395	12.5x25	1560	16x25	1847	16x36	2145	18x35.5	2541	22x40	2695
4700	12.5x20	1447		12.5x25	1671	16x25	1958	16x31.5	2310	18x35.5	2640	22x40	2915	22x50	3069
6800	12.5x25	1795		16x25	2056	16x36	2374	18x35.5	2767	22x40	2761	22x50	3080		
10000	16x25	2112		16x36	2265	18x35.5	2903	22x40	2860	22x50	3210				
15000	16x36	2629		18x35.5	2820	22x40	2991	22x50	3350						
22000	18x40	2805		22x40	3620	22x50	3650								

Cap (μF)	V	100		160		200		250		350		400		450	
Item		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.47	5x11	12		6.3x11	22	6.3x11	22	6.3x11	26	8x11.5	24	8x11.5	26	8x11.5	25
1	5x11	18		6.3x11	30	6.3x11	25	6.3x11	28	8x11.5	45	8x11.5	46	10x16	75
2.2	5x11	28		6.3x11	35	6.3x11	30	8x11.5	62	10x12.5	62	8x11.5	70	10x16	80
3.3	5x11	40		8x11.5	65	8x11.5	70	8x11.5	75	10x12.5	90	10x12.5	105	10x20	125
4.7	5x11	46		8x11.5	70	8x11.5	75	10x12.5	120	10x12.5	95	10x16	130	10x20	135
6.8	5x11	54		8x11.5	75	8x11.5	85	10x12.5	125	10x20	105	10x16	150	12.5x20	165
10	6.3x11	69		10x12.5	90	10x16	140	10x16	150	12.5x25	145	10x20	175	12.5x20	175
22	8x11.5	127		10x16	145	10x20	200	12.5x20	250	16x25	245	12.5x25	280	16x25	410
33	8x11.5	167		10x20	200	12.5x20	250	12.5x20	260	16x25	420	16x25	420	16x31.5	470
47	10x16	231		12.5x20	240	12.5x25	340	12.5x25	350	16x31.5	450	16x25	470	18x31.5	540
68	10x16	271		12.5x20	303	12.5x25	360	16x25	540	16x31.5	490	16x31.5	510	18x35.5	570
82	10x16	299		12.5x25	365	12.5x25	385	16x25	550	18x31.5	510	18x31.5	580	18x35.5	590
100	10x20	402		16x25	520	16x25	550	16x31.5	630	18x35.5	620	18x35.5	650	18x40	750
120	10x25	457		16x25	550	16x25	570	16x31.5	650	18x40	650	18x40	780	18x45	820
150	12.5x20	579		16x25	580	16x31.5	650	18x31.5	720		850	22x40	920		
220	12.5x25	762		16x25	660	18x35.5	800	18x40	850						
330	16x25	952		18x35.5	957	22x35	1100								
470	16x31.5	1238		18x40	1100	22x40	1238								
1000	18x35.5	1321		22x50	1760										