

DK series

- High-temperature resistance, high ripple current.
- 115°C for general purposes, 2000 hours standard product.
- RoHS Compliance
- 耐高溫、高紋波。
- 115°C, 2000hours 標準品



SPECIFICATIONS

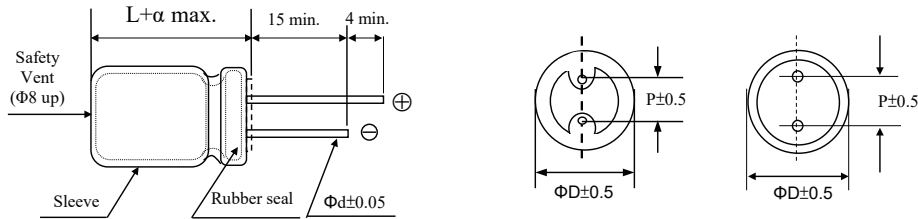
Items 項目	Characteristics 特性													
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)													
Operating Temperature Range 適用溫度範圍	-40 ~ +115°C				-40 ~ +115°C				-25 ~ +115°C					
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC				160 ~ 400VDC				420 ~ 500VDC					
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (µA) which is greater.(After 2 minutes application of DC rated voltage, at 20 °C)							I ≤ 0.03CV +20 (µA) (After 3 minutes application of DC rated voltage, at 20 °C)						
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C													
	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 voltage(V)	6.3	10	16	25	35	50~100	160~250	350~400	450				
	Z(-25°C)/(20°C)	5	4	3	2	2	2	3	6	15				
	Z(-40°C)/(20°C)	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°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 115°C.													
	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°C after exposing them for 1,000 hours 115°C 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
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	16x35.5	2200	18x35.5	2288	
3300	10x20	1154	12.5x20	1395	12.5x25	1560	16x25	1847	16x35.5	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
1	5x11	18	6.3x11	30	6.3x11	25	6.3x11	28	8x11.5	45	8x11.5	46	10x12.5	75	
2.2	5x11	28	6.3x11	35	6.3x11	30	8x11.5	62	8x11.5	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	10x16	125	
4.7	5x11	46	8x11.5	70	8x11.5	75	10x12.5	120	10x12.5	95	10x12.5	130	10x16	135	
6.8	5x11	54	8x11.5	75	8x11.5	85	10x12.5	125	10x12.5	105	10x12.5	150	10x20	165	
10	6.3x11	69	10x12.5	90	10x12.5	140	10x12.5	150	10x16	145	10x16	175	10x20	175	
22	8x11.5	127	10x12.5	145	10x16	200	10x20	250	12.5x20	245	12.5x20	280	16x22	410	
33	8x11.5	167	10x16	200	10x20	250	10x20	260	16x22	420	16x22	420	16x25	470	
47	10x16	231	10x20	240	12.5x20	340	12.5x20	350	16x22	450	16x22	470	18x25	540	
68	10x16	271	10x20	303	12.5x20	360	16x22	540	16x25	490	16x25	510	18x31.5	570	
82	10x16	299	12.5x20	365	12.5x20	385	16x22	550	16x25	510	18x25	580	18x31.5	590	
100	10x20	402	16x22	520	16x22	550	16x25	630	18x25	620	18x31.5	650	18x35.5	750	
120	10x25	457	16x22	550	16x22	570	16x25	650	18x31.5	650	18x35.5	780	18x40	820	
150	12.5x20	579	16x22	580	16x25	650	18x25	720	18x35.5	850	22x35	920			
220	12.5x25	762	16x22	660	18x31.5	800	18x35.5	850							
330	16x25	952	18x31.5	957	22x32	1100									
470	16x31.5	1238	18x35.5	1100	22x35	1238									
1000	18x35.5	1321	22x45	1760											

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