UK series

- 105°C high-temperature resistance, high ripple current resistance.
- Long life: 3000hours. Standard Product, for general purposes.
- RoHS Compliance.
- 105°C耐高溫，耐高紋波，
  長壽命 (3000小時)產品、普通用途。

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 ~ +105°C					-40 ~ +105°C				-25 ~ +105°C	
Rated Voltage Range 工作電壓範圍	6.3 ~ 100V					160 ~ 250V				350 ~ 450V	
Leakage Current 洩漏電流	I≦0.01CV or 3(μA), which is greater. (After 2 minutes application of working voltage)					I≦0.03CV+20(μA), (After 3 minutes application of working voltage)					
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120 Hz. Temperature: 20°C										
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	160~250	350~450
	tan δ (Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.08	0.20	0.25
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (20°C、120Hz)										
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) / Z (20°C)	5	4	3	2	2	2		3	6	15
	Z (-40°C) / Z (20°C)	10	8	6	4	3	3		4	-	-
Load Life 負荷壽命	3000hours, with application of working voltage at 105°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	1,000hours, no voltage applied, at 105°C。 After Test: U_R to be applied for 30 minutes, 24 to 48hours before measurement.										
	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	JIS C 5101-4-1 and JIS C 5101-2										

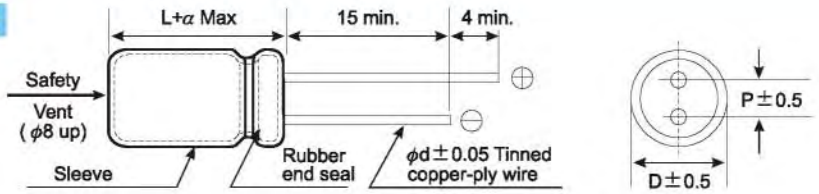
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

WV(V)	Capacitance (μF)	Frequency (Hz)			
		50	120	1K	≧10K
≦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

UK series

DIMENSIONS (mm)



φD	5	6.3	8	10	13	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<16) 1.0 (L≧16) 2.0

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105°C, 120Hz.

Cap (μF)	WV(V) (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	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.
0.1~0.47												5x11	12		
1												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	8x12	145
47		5x11	80	5x11	89	5x11	97	5x11	100	6.3x11	133	6.3x11	152	8x12	174
56		5x11	92	5x11	103	5x11	107	5x11	121	6.3x11	136	6.3x11	171	8x12	187
68		5x11	105	5x11	121	5x11	150	5x11	158	6.3x11	173	6.3x11	208	8x12	234
100		5x11	113	5x11	145	6.3x11	157	6.3x11	179	8x12	197	8x14	270	10x13	292
220		5x11	176	6.3x11	223	8x12	248	8x12	318	10x13	347	10x16	583	10x20	693
330		6.3x11	240	6.3x11	275	8x12	361	10x13	391	10x16	490	10x20	737	13x21	770
470		6.3x11	292	8x12	339	8x14	427	8x16 10x16	523 545	10x20	627	13x21	902	13x25	1012
560		8x12	350	8x12	443	8x14	475	10x16	594	10x20	644	13x21	963	13x25	1177
680		8x12	413	8x12	538	8x16	548	10x20	704	13x21	770	13x25	1040	16x26	1337
1000		8x14	502	10x13	645	10x16	768	10x20	919	13x21	1194	13x25	1485	16x32	1848
1500		10x16	669	10x20	798	10x20	993	13x21	1155	13x25	1370	16x32	1810	18x32	1975
2200		10x20	912	10x20	988	13x21	1231	13x25	1447	16x26	1678	16x36	2200	18x35	2288
3300		10x20	1154	13x21	1395	13x25	1560	16x26	1847	16x36	2145	18x35	2541	22x40	2695
4700		13x21	1447	13x25	1671	16x26	1958	16x32	2310	18x35	2640	22x40	2915	22x50	3069
6800		13x25	1795	16x26	2056	16x36	2374	18x35	2767	22x40	2761	22x50	3080		
10000		16x26	2112	16x36	2265	18x35	2903	22x40	2860	22x50	3210				
15000		16x36	2629	18x35	2820	22x40	2991	22x50	3350						
22000		18x40	2805	22x40	3620	22x50	3650								

Cap (μF)	WV(V) (Code)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	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.
0.1		5x11	1.7												
0.22		5x11	3.7												
0.33		5x11	5.5												
0.47		5x11	12	6.3x11	11	6.3x11	11	6.3x11	13	6.3x11	12	8x12	13	8x12	13
1		5x11	18	6.3x11	15	6.3x11	18	6.3x11	18	8x12	22	8x12	23	10x16	20
2.2		5x11	28	6.3x11	24	6.3x11	25	8x12	31	8x12	31	8x12	35	10x16	39
3.3		5x11	40	8x12	33	8x12	39	8x12	46	10x13	50	10x13	50	10x20	53
4.7		5x11	46	8x12	46	8x12	46	10x13	57	10x13	62	10x16	66	10x20	77
6.8		5x11	54	8x12	54	8x12	55	10x13	68	10x13	76	10x16	84	13x21	88
10		6.3x11	69	10x13	69	10x16	80	10x16	86	10x20	97	10x20	101	13x21	107
22		8x12	127	10x16	130	10x20	152	13x21	165	13x25	178	13x25	189	16x26	193
33		8x12	167	10x20	185	13x21	187	13x21	215	16x26	237	16x26	231	16x32	303
47		10x16	231	13x21	233	13x25	264	13x25	274	16x26	308	16x26	319	18x32	352
68		10x16	271	13x21	303	13x25	308	16x26	319	16x32	336	16x32	435	18x35	462
82		10x16	299	13x25	365	13x25	385	16x26	413	16x32	435	18x32	462	18x35	539
100		10x20	402	16x26	424	16x26	446	16x32	479	18x32	528	18x35	529	18x40	572
120		10x25	457	16x26	440	16x26	475	16x32	495	18x35	561	18x40	605	18x45	677
150		13x21	579	16x26	462	16x32	567	18x32	583	18x40	605	22x40	770		
220		13x25	762	16x36	660	18x35	693	18x40	715						
330		16x26	952	18x35	957	22x35	1100								
470		16x32	1238	18x40	1100	22x40	1238								
1000		18x35	2321	22x50	1760										

※ 13mm may be replaced by 12.5mm upon customer's request.