

產品特點 Features

Nonpolar, high temperature.
Suitable for use in polarity and change circuits.
無極性品。
適用於極性變換電路。

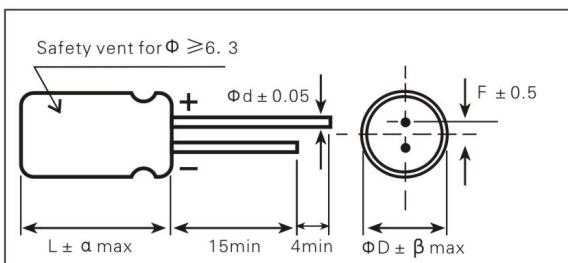


規格書 SPECIFICATION

項目 Item	特性參數 Characteristics								
使用溫度範圍 Operating Temperature Range	-40 to +105°C								
額定電壓範圍 Rated Working Voltage Range	6.3 to 100V								
容量範圍 Nominal Capacitance Range	2.2 to 1000 μF								
容量允許偏差 Capacitance Tolerance	± 20% at 120Hz, +20°C								
漏電流 Leakage Current	$I \leq 0.03CV$ or $3 (\mu A)$ 在常溫加額定電壓5分鐘讀數，兩者取大值 whichever is greater measured after 5 minutes application of rated working voltage at +20°C								
損耗角正切值(20°C, 120Hz) $\tan \delta$ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	63	100
	$\tan \delta$ (max.)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10
低温特性 Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3	3	3
高温負荷特性 High Temperature Loading	在105°C加額定電壓與額定紋波電流1000H (每250H產品換方向一次) 然後取出恢復常溫後測試 Test time : 1,000 hours Test temperature: +105°C Test conditions: Rated DC working voltage to each polarity every 250 hours Post test requirements at +20°C								
	Leakage current	\leq Initial specified value							
	Cap. change	within ± 20% of the initial measured value							
	$\tan \delta$	\leq 200% of the initial specified value							
高温貯存特性 Shelf Life	At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits								
	Leakage current	\leq Initial specified value							
	Cap. change	within ± 20% of the initial measured value							
	$\tan \delta$	\leq 200% of the initial specified value							
參考國際標準 Industrial Standard	JIS C – 5101-4 (IEC 60384-4)								

外型圖 DIMENSIONS

Unit: mm



Φd	5	6.3	8 ($L < 20$)	8 ($L \geq 20$)	10	13	16
F	2.0	2.5	3.5	3.5	5.0	5.0	7.5
ΦD	0.5	0.5	0.5	0.6	0.6	0.6	0.8
α	$(L < 20) 1.5 (L \geq 20) 2.0$						
β	$(D < 20) 0.5 (D \geq 20) 1.0$						

紋波電流修正系數 RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Cap(μF)	Frequency coefficient (Hz)	50	120	300	1k	10k~
≤47		0.75	1.00	1.35	1.57	2.00
68~220		0.80	1.00	1.23	1.34	1.50
≥560		0.85	1.00	1.10	1.13	1.15

一覽表 Standard

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current						
4.7	475							5 x 11	23
10	106					5 x 11	30	5 x 11	34
22	226			5 x 11	42	6.3 x 11	51	6.3 x 11	55
33	336	5 x 11	46	6.3 x 11	57	6.3 x 11	63	8 x 12	79
47	476	6.3 x 11	61	6.3 x 11	67	8 x 12	89	10 x 12.5	100
100	107	8 x 12	104	10 x 12.5	125	10 x 12.5	139	10 x 16	164
220	227	10 x 12.5	168	10 x 16	204	10 x 20	279	13 x 25	336
330	337	10 x 16	229	10 x 20	275	13 x 20	346	13 x 25	414
470	477	10 x 20	330	13 x 20	371	13 x 25	460	16 x 25	543
1000	108	13 x 25	550	16 x 25	668	16 x 25	746	16 x 30	871

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)

Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current						
2.2	225			5 x 11	18			6.3 x 11	22
3.3	335			5 x 11	22	6.3 x 11	26	8 x 12	32
4.7	475	5 x 11	25	6.3 x 11	29	6.3 x 11	31	8 x 12	39
10	106	6.3 x 11	40	8 x 12	51	8 x 12	53	10 x 12.5	64
22	226	8 x 12	68	10 x 12.5	82	10 x 16	96	10 x 20	114
33	336	10 x 12.5	89	10 x 16	107	10 x 20	129	13 x 20	164
47	476	10 x 12.5	111	10 x 20	146	10 x 20	157	13 x 25	200
100	107	10 x 20	196	13 x 25	264	13 x 25	275	16 x 25	304
220	227	13 x 25	364	16 x 25	443	16 x 30	486		
330	337	16 x 25	493	16 x 30	593				
470	477	16 x 25	586						

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)