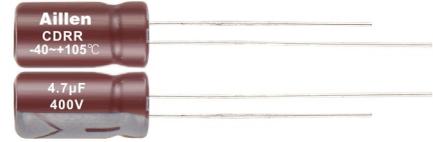


**產品特點 Features**

High ripple current.  
For electronic ballast, power supply.  
高波紋品，適用於電源，電子鎮流器。



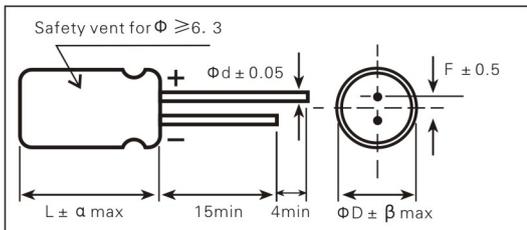
**規格書 SPECIFICATIONS**

項目 Item	特性參數 Characteristics						
使用溫度範圍 Operating Temperature Range	-40 to +105°C			-25 to +105°C			
額定電壓範圍 Rated Working Voltage Range	160 to 400V			450V			
容量範圍 Nominal Capacitance Range	± 20% at 120Hz, +20°C						
容量允許偏差 Capacitance Tolerance	1 to 220 µF						
漏電流 Leakage Current	I ≤ 0.02CV + 25 (µA) 常溫下施加額定電壓2分鐘後讀數 after 2 minutes application of rated working voltage at +20°C						
損耗角正切值(20°C, 120Hz) tan δ (120Hz, +20°C)	Working Voltage (V)	160	200	250	350	400	450
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20
衝擊電壓 Surge Voltage	Working Voltage (V)	160	200	250	350	400	450
	Surge Voltage (V)	200	250	300	400	450	500
低溫特性 Low Temperature Characteristics	Impedance ratio max. at 120Hz						
	Working Voltage (V)	160	200	250	350	400	450
	Z-25°C / Z+20°C	3	3	3	5	5	6
高溫負荷特性 High Temperature Loading	在105°C的前提下施加額定電壓與額定紋波電流3000H,然後取出恢復常溫後測試 Test time : 3,000 hours Test temperature:+105°C Test conditions:Rated DC working voltage with rated ripple current Post test requirements at +20°C						
	Leakage current	≤ Initial specified value					
	Cap. change	within ± 20% of the initial measured value					
	tan δ	≤ 200% of the initial specified value					
高溫貯存特性 Shelf Life	105°C不加電壓貯存1000H, 然後取出恢復到常溫後測試 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	≤ Initial specified value					
	Cap. change	within ± 20% of the initial measured value					
	tan δ	≤ 200% of the initial specified value					
參考國際標準 Industrial Standard	JIS C - 5101-4 (IEC 60384-4)						

插件鋁電解電容

**外型圖 DIMENSIONS**

Unit: mm



ΦD	8 (L < 20)	8 (L ≥ 20)	10	12.5	16	18
F	3.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.6	0.8	0.8
α	(L < 20) 1.5			(L ≥ 20) 2.0		
β	(D < 20) 0.5			(D ≥ 20) 1.0		

**紋波電流修正係數 RIPPLE CURRENT MULTIPLIER**

Frequency Coefficient

Cap(µF) \ Freq (Hz)	120	1k	10k	100k
1~5.6	0.20	0.40	0.80	1.00
6.8~180	0.40	0.75	0.90	1.00
≥ 220	0.50	0.85	0.94	1.00

一覽表 Standard

Voltage (Code)		160V		200V		250V		350V	
Cap. (μF)	Code	Case Size	Ripple Current						
4.7	475					8 × 12	160	10 × 12.5	150
5.6	565							10 × 12.5	180
6.8	685			8 × 12	204	8 × 12	215	10 × 16	280
						10 × 12.5	250		
10	106	10 × 16	320	10 × 16	320	10 × 16	320	10 × 20	350
22	226	10 × 20	500	10 × 16	453	10 × 16	453	13 × 20	650
				10 × 20	500	10 × 20	500		
33	336	10 × 20	650	10 × 16	589	10 × 16	640	16 × 20	900
				10 × 20	650	13 × 20	800		
47	476	10 × 20	750	13 × 20	980	13 × 20	980	16 × 20	1080
68	686	13 × 20	1180	13 × 25	1300	16 × 20	1300	18 × 25	1470
				16 × 20	1300				
82	826			16 × 20	1380	16 × 20	1380	18 × 25	1530
100	107	13 × 25	1420	16 × 20	1420	16 × 25	1530		
		16 × 20	1420						
150	157	16 × 25	1890	16 × 25	1890	18 × 25	1940		
220	227	18 × 25	2370	18 × 30	2648				

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz  
在105°C 100kHz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)		400V		450V	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current
1	105	8 × 12	60		
1.5	155	8 × 12	90		
		10 × 12.5	100		
1.8	185	8 × 12	95		
		10 × 12.5	120		
2.2	225	8 × 12	95	8 × 12	105
		10 × 12.5	140		
3.3	335	8 × 12	130		
		10 × 12.5	150		
4.7	475	8 × 12	171	8 × 16	176
		10 × 16	220	10 × 20	220
5.6	565	10 × 16	250	10 × 20	250
6.8	685	10 × 16	280	10 × 12.5	228
				10 × 20	280
10	106	10 × 16	317	10 × 20	397
		10 × 20	350	13 × 20	450
15	156	13 × 15	487	13 × 25	600
		13 × 20	550		
22	226	13 × 20	760	13 × 25	698
				16 × 20	730
33	336	13 × 25	861	16 × 20	891
		16 × 20	900	16 × 25	980
47	476	13 × 25	1027	16 × 25	1121
		16 × 20	1073	18 × 20	1093
		16 × 25	1180	18 × 25	1200
		18 × 20	1180		
68	686	16 × 25	1374		
		16 × 30	1488		
		18 × 25	1470		

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz  
在105°C 100kHz條件下的最大紋波值

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

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