

# AU series

- Snap-in type 105°C 2000 hours specially designed for audio equipment
- Select structural materials with high sound quality
- Create high definition audio equipment with high sound quality
- Suitable for high quality audio equipment
- RoHS Compliance
- 基板自立 105°C 2000小時音響專用鋁電解電容器
- 精選高音質結構材料
- 打造高品質HD音響設備的音響效果
- 適用於高音質音響設備
- 環境對策品



## SPECIFICATIONS

Items 項目	Characteristics 特性						
Capacitance Tolerance 靜電容量誤差	± 20% (M)						
Operating Temperature Range 適用溫度範圍	- 40 ~ +105°C			- 25 ~ +105°C			
Rated Voltage Range 額定電壓範圍	16 ~ 250VDC			400 ~ 450VDC			
Leakage Current 洩漏電流	$I \leq 3\sqrt{CV}$ (µA) or 5mA, which is smaller. (After 5 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)	16	25~75	80~100	180	200~400	450
	tan δ(Max)	0.35	0.30	0.25	0.15	0.15	0.20
When nominal capacitance over 22000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.							
Low Temperature Stability 低溫特性	Measurement Frequency: 120Hz.						
	Rated Voltage(V)	16~250			400~450		
	Z(-25°C)/Z(20°C)	4			8		
	Z(-40°C)/Z(20°C)	12			-		
Impedance Ratio(Max) 阻抗比率(最大值)	2000hours, with application of rated Voltage 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	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000hours 105°C without voltage applied. Before the measurement. The Capacitance 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	JIS C 5101-4-1 (IEC 60384)						

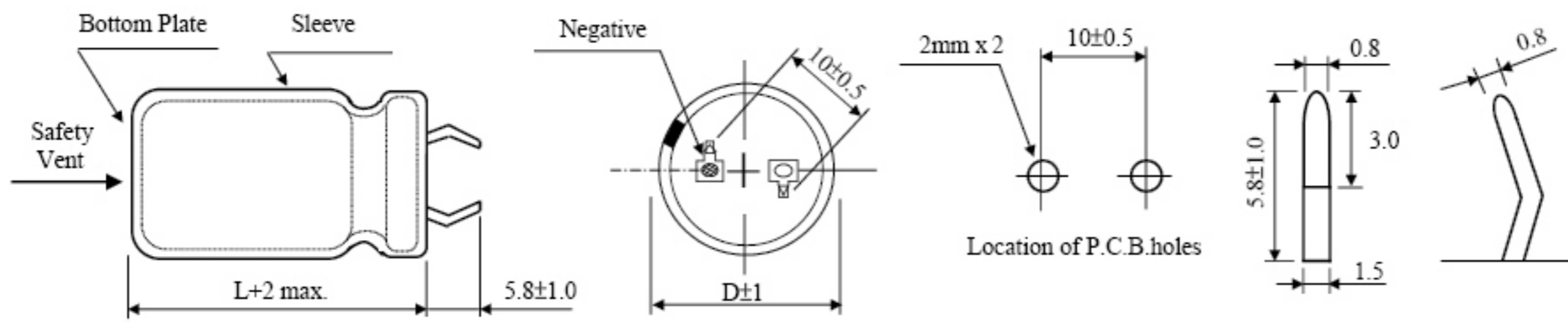
## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)					
	50	120	300	1K	10K	50K
16~250	0.81	1.00	1.17	1.32	1.45	1.50
400~450	0.77	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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## DIMENSIONS(mm)



## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (µF)	V	16		25		35		50	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
1500								22x20	1.34
1800								20x25	1.47
								25x20	1.43
2200						22x20	1.26	20x30	1.6
								22x25	1.6
2700						20x25	1.39	20x35	1.73
								22x30	1.73
						25x20	1.34	25x25	1.69
								30x20	1.78
3300				22x20	1.30	20x30	1.52	20x40	1.95
						22x25	1.52	22x35	1.91
3900				20x25	1.39			20x45	2.13
								22x40	2.04
				25x20	1.34	30x20	1.6	25x30	2.17
								30x25	2.04
							35x20	2.13	
4700		22x20	1.17	20x30	1.47	20x35	1.91	20x50	2.39
				22x25	1.47	22x30	1.91	22x45	2.26
						25x25	1.86	25x35	2.34
5600		20x25	1.26	30x20	1.60	20x40	2.08	22x50	2.52
						22x35	2.04	25x40	2.52
						25x30	1.95	30x30	2.60
						35x20	1.95	35x25	2.47
6800		25x20	1.47	20x35	1.91	20x50	2.17	25x45	2.86
				22x30	1.91	22x40	2.26	30x35	2.82
				25x25	1.86	30x25	2.26		
8200		20x30	1.65	20x40	2.08	22x45	2.52	30x40	3.08
				22x35	2.04	25x40	2.34		
		22x25	1.65	25x30	2.00	30x30	2.39	35x30	3.17
				35x20	1.95				
10000		20x35	1.78	20x50	2.21	25x45	2.65	30x45	3.47
		22x30	1.78	22x40	2.3	30x35	2.60		
		25x25	1.73	25x35	2.17	35x25	2.78	35x35	3.47
		30x20	1.82	30x25	2.3				
12000		20x40	1.95	22x45	2.52	25x50	3.00	35x40	3.78
		22x35	1.91	25x40	2.39	30x40	2.86		
		25x30	1.86	30x30	2.43	35x30	2.95		
		35x20	1.82	35x25	2.3				
15000		20x45	2.26	25x45	2.73	30x45	3.30	35x50	4.08
		22x40	2.17						
		25x35	2.08	30x35	2.69	35x35	3.30		
		30x25	2.17						
18000		22x45	2.43	25x50	3.08	30x50	3.73		
		25x40	2.26	30x40	2.95	35x40	3.60		
		30x30	2.30	35x30	3.04				
22000		25x45	2.56	30x45	3.34	35x45	4.08		
		30x35	2.52	35x35	3.34				
		35x25	2.52						
27000		25x50	2.95	35x40	3.73				
		30x40	2.82						
		35x30	2.91						
33000		30x45	3.21	35x45	4.21				
		35x35	3.17						

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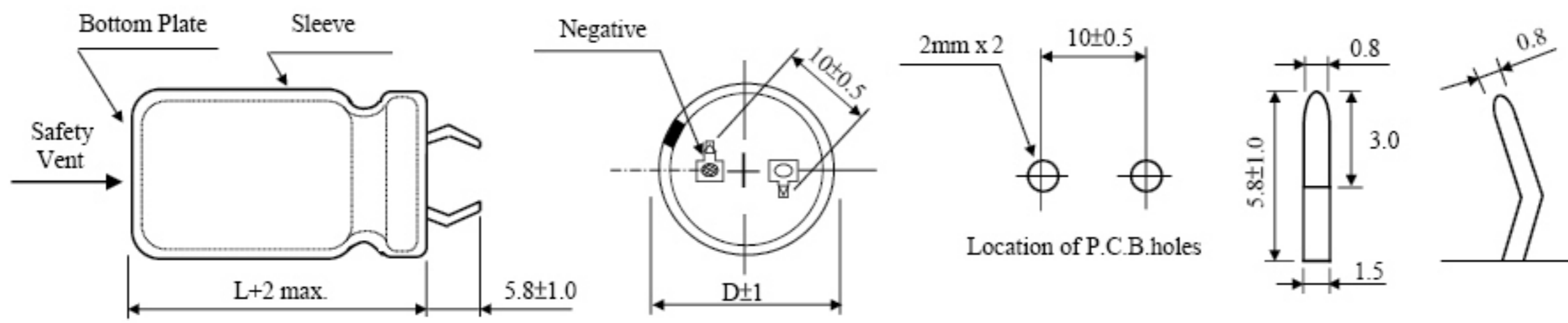
D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	V Item	63		80		100			
		D x L	R.C.	D x L	R.C.	D x L	R.C.		
680						20x30	1.47		
						22x25	1.52		
820	22x20	1.13		20x25	1.47	20x35	1.60		
				25x20	1.43	22x30	1.60	25x25	1.56
						30x20	1.65	20x40	1.78
1000	20x25	1.26		20x30	1.56				
				22x25	1.60				
1200	25x20	1.43		20x35	1.69	20x45	2.00		
				22x30	1.69	22x40	1.91		
				25x25	1.65	25x30	2.04		
				30x20	1.73	30x25	1.91	35x20	2.00
1500	20x30	1.65	20x40	1.91	20x50	2.3			
	22x25	1.65	22x35	1.86	22x45	2.21			
			25x30	1.82	25x35	2.26			
1800	20x35	1.78	20x45	2.13	22x50	2.47			
	22x30	1.73	22x40	2.04	25x40	2.47			
	25x25	1.73	30x25	2.08	30x30	2.52			
	30x20	1.78	35x20	2.17	35x25	2.39			
2200	20x40	1.95	22x45	2.34	25x45	2.78			
	22x35	1.91	25x35	2.39	30x35	2.78			
	25x30	1.86	30x30	2.21	35x30	2.6			
	35x20	1.82							
2700	20x50	2.08	30x35	2.43	30x40	3.08			
	22x40	2.13							
	25x35	2.04	35x25	2.60	35x35	2.82			
	30x25	2.17							
3300	22x45	2.43	25x50	2.82	30x50	3.26			
	25x40	2.26	30x40	2.73					
	30x30	2.34	35x30	2.78					
3900	25x45	2.47	30x45	3.00	35x40	3.73			
	30x35	2.47	35x35	2.95					
	35x25	2.60							
4700	25x50	2.78	30x45	3.34	35x50	3.91			
	30x40	2.69	35x40	3.26					
	35x30	2.78							
5600	30x45	3.00	35x45	3.56					
	35x35	2.95							
6800	30x50	3.39	35x50	4.04					
	35x40	3.26							
8200	35x45	3.65							
10000	35x50	4.17							

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

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## DIMENSIONS(mm)



## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (µF)	V	200		250		400		450	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
56								20x25	0.44
68						20x25	0.49	20x30	0.50
82						20x30	0.64	20x35	0.64
						22x25	0.64	22x30	0.64
100						20x35	0.68	20x40	0.69
					22x30			0.69	
					25x25			0.69	
120						20x35	0.73	20x45	0.72
						22x30	0.73	22x35	0.72
						25x25	0.73	25x30	0.72
150						20x45	0.85	22x45	0.79
						22x35	0.85	25x35	0.79
						25x30	0.85	30x25	0.79
180				20x25	0.90	20x50	0.95	22x50	0.87
						22x40	0.95	25x40	0.87
						25x35	0.95	30x30	0.87
220		20x25	0.90	20x30	1.00	22x50	1.1	25x45	1.05
				22x25	1.00	25x40	1.1	30x35	1.05
						30x30	1.1		
270		20x30	0.99	20x35	1.10	25x45	1.22	30x40	1.23
		22x25	0.99	22x30	1.10	30x35	1.22	35x30	1.23
330		20x35	1.2	20x40	1.20	25x50	1.44	30x45	1.38
						30x40	1.44	35x35	1.38
						25x25	1.20		
390		20x40	1.31	20x45	1.30	30x45	1.55	35x40	1.61
		22x30	1.31	22x40	1.30	35x35	1.55		
		25x25	1.31	25x30	1.30				
470		20x45	1.48	20x50	1.40	30x50	1.68	35x45	1.78
		22x35	1.48	22x45	1.40				
		25x30	1.48	25x35	1.40				
560		20x50	1.60	22x50	1.50	35x45	1.90	35x50	1.99
		22x40	1.6	25x40	1.50				
		25x35	1.60	30x30	1.50				
				35x25	1.50				
680		22x45	1.75	25x50	1.70	35x50	2.12		
		25x40	1.75						
		30x30	1.75	30x35	1.70				
		35x25	1.75						
820		25x45	2.04	30x40	2.00				
		30x35	2.04	35x30	2.00				
1000		25x50	2.3	30x45	2.20				
		30x40	2.3	35x35	2.20				
		35x30	2.3						
1200		30x45	2.65	35x40	2.30				
		35x35	2.65						
1500		30x50	2.80	35x50	2.50				
		35x40	2.80						
1800		35x45	3.08						
2200		35x50	3.48						

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