

SAP SERIES(Lug/Snap-In Terminal Type插入/自立型,For Audio音響電容)

- Designed for high grade audio equipment,giving priority to high sound quality.
- Suit for use in mini-compos,CD,DAT players,cassette decks and etc.



◆ SPECIFICATIONS

Item	Performance Characteristics											
Operating temperature range	-40 to +85℃											
Rated Working Voltage Range	16 to 100V											
Nominal Capacitance Range	680 to 10000μF											
Capacitance Tolerance	±20(120Hz,+20℃)											
Leakage Current	I≤ 0.01CV or3mA whichever is smaller after 5minutes application of rated working voltage at +20℃											
Dissipation Factor tan δ(120Hz,+20℃)	<table><tr><td>Working Voltage(V)</td><td>16</td><td>25~63</td><td>71~100</td></tr><tr><td>tan δ(max)</td><td>0.30</td><td>0.25</td><td>0.22</td></tr></table>				Working Voltage(V)	16	25~63	71~100	tan δ(max)	0.30	0.25	0.22
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Low Temperature Characteristics	Impedance ratio max at 120Hz <table><tr><td>Working Voltage(V)</td><td>16~100</td></tr><tr><td>Z-25℃/Z+20℃</td><td>4</td></tr><tr><td>Z-40℃/Z+20℃</td><td>12</td></tr></table>				Working Voltage(V)	16~100	Z-25℃/Z+20℃	4	Z-40℃/Z+20℃	12		
Working Voltage(V)	16~100											
Z-25℃/Z+20℃	4											
Z-40℃/Z+20℃	12											
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : + 85℃ Applied voltage : Rated DC working voltage	Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap.Change :within ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value										
Shelf Life	Test conditions Duration : 1000 hours Ambient temp : + 85℃ Applied voltage : (None)	Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap.Change :within ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value										

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

1)maximum rms ripple current at 120Hz, 85°C are given in the table.

2)temperature multiplying factor.

where capacitors are operated at temperature other than 85°C, the maximum ripple current must be the figure shown in the table below

Frequency coefficient

freq. (Hz) Rated voltage	60	120	1k	0~50K
10~100V	0.9	1.0	1.15	1.25
160~250V	0.8	1.0	1.25	1.47
315~450	0.8	1.0	1.30	1.47

(2) Temperature Coefficient

3) frequency multiplying factor

if capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below

Temperature coefficient

Temperature	20~45	65	85	105
FACTOR	2	1.89	1.52	1.0

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◆ DIMENSIONS

Voltage	16V		25V		35V		63V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
680							22*25	0.75
1000							22*30	1.00
							25*25	1.00
1500					22*25	1.15	22*35	1.00
							25*30	1.30
							30*25	1.30
2200			22*25	1.35	22*30	1.50	22*45	1.35
							25*40	1.75
					25*25	1.50	30*30	1.80
							35*25	1.75
3300	22*20	1.35	22*30	1.80	22*35	1.95	25*50	2.45
					25*30	1.95	30*40	2.45
			25*25	1.80	30*25	2.00	35*30	2.40
4700	22*25	1.80	22*35	2.30	22*45	2.55	30*50	3.20
			25*30	2.30	25*40	2.65		
			30*25	2.40	30*30	2.60	35*40	3.20
					35*25	2.65		
6800	22*35	2.25	22*45	2.75	25*50	3.10	35*50	3.75
	25*30	2.25	25*40	2.80	30*40	3.10		
	30*25	2.35	30*30	2.75	35*30	3.00		
			35*25	2.85				
10000	22*45	2.50	25*50	3.10	30*50	3.40		
	25*35	2.50	35*40	3.10				
	30*30	2.50	35*30	3.00	35*40	3.40		
	35*25	2.60						

Maximum Allowable Ripple Current (A rms) at 85℃ 120Hz

Case Size ΦD X L (mm)

Voltage	80V		100V					
Cap(μF)	Size	Ripple	Size	Ripple				
680	22*30	0.90	22*35	0.95				
	25*25	0.90	25*30	1.00				
			30*25	1.00				
1000	22*35	1.20	22*50	1.35				
	25*30	1.20	25*40	1.35				
	30*25	1.25	30*30	1.35				
			35*25	1.35				
1500	22*50	1.70	25*50	1.80				
	25*40	1.65	30*40	1.85				
	30*30	1.65	35*25	1.35				
	30*25	1.65						
2200	25*50	2.20	30*50	2.45				
	30*40	2.20						
	35*30	2.15	35*40	2.45				
3300	30*50	3.00	35*40	2.45				
	35*40	2.95						
4700	35*50	3.90						

Maximum Allowable Ripple Current (A rms) at 85℃ 120Hz

Case Size ΦD X L (mm)