

SFS SERIES(7mmL高, For Audio音響電容)

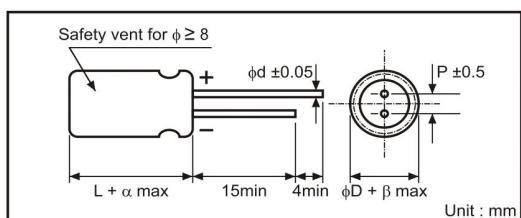
- Standard,for audio equipment.
- Low distortion ratio ensured with anti-vibration structures.



◆ SPECIFICATIONS

Item	Performance Characteristics							
Operating temperature range	-40 to +105°C							
Rated Working Voltage Range	6.3 to 50V							
Nominal Capacitance Range	0.1 to 220μF							
Capacitance Tolerance	±20(120Hz,+20°C)							
Leakage Current	I≤0.005CV or 2(μA) whichever is greater after 2minutes application of rated working voltage at +20°C							
Dissipation Factor tan δ(120Hz,+20°C)	Working Voltage(V)	4	6.3	10	16	25	35	
	tan δ(max)	0.35	0.24	0.20	0.16	0.14	0.12	
Z-25°C/Z+20°C	7	4	3	2	2	2	2	
Z-40°C/Z+20°C	15	8	6	4	4	3	3	
High Temperature Loading	Test conditions	Post test requirements at +20°C						
	Duration : 1000 hours	Leakage current :≤Initial specified value						
	Ambient temp : + 105°C	Cap.Change :within ±20%of Initial measured value						
	Applied voltage : Rated DC working voltage	tan δ :≤ 200% of Initial specified value						
Shelf Life	Test conditions	Post test requirements at +20°C						
	Duration : 500 hours	Leakage current :≤Initial specified value						
	Ambient temp : + 105°C	Cap.Change :within ±20%of Initial measured value						
	Applied voltage : (None)	tan δ :≤ 200% of Initial specified value						

◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α			1.5	
β			0.5	

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

freq. (Hz) cap(μF)	50	120	300	1k	10k~
≤47	0.75	1.00	1.35	1.57	2.00
56~220	0.80	1.00	1.23	1.34	1.50

(2) Temperature Coefficient

Tmperatu	~55	65	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1.00

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◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10					4*7	29	5*7	33
22	4*7	34	5*7	38	5*7	44	6.3*7	51
33	5*7	42	5*7	47	6.3*7	57	6.3*7	63
47	5*7	50	6.3*7	59	6.3*7	68	8*7	78
100	6.3*7	77	8*7	96	8*7	107		
220	8*7	130						

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size ΦD X L (mm)

Voltage	35V		50V					
Cap(μF)	Size	Ripple						
0.1			4*7	1.0				
0.22			4*7	2.3				
0.33			4*7	3.5				
0.47			4*7	5.0				
1			4*7	10				
2.2			4*7	19				
3.3			4*7	24				
4.7	4*7	34	5*7	29				
10	5*7	42	6.3*7	44				
22	6.3*7	77	8*7	65				
33	8*7	130						

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size ΦD X L (mm)