

SFM SERIES(5mmL, For Audio音響電容)

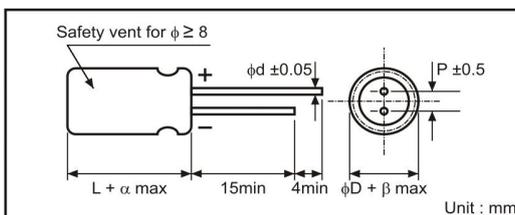
- Standard, for audio equipment.
- Low distortion ratio ensured with anti-vibration structures.



◆ SPECIFICATIONS

Item	Performance Characteristics																								
Operating temperature range	-40 to +85°C																								
Rated Working Voltage Range	4 to 50V																								
Nominal Capacitance Range	0.1 to 470μF																								
Capacitance Tolerance	±20(120Hz, +20°C)																								
Leakage Current	$I \leq 0.02CV$ or $2(\mu A)$ whichever is greater after 5minutes application of rated working voltage at +20°C																								
Dissipation Factor tan δ(120Hz, +20°C)	<table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tan δ(max)</td> <td>0.35</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	Working Voltage(V)	4	6.3	10	16	25	35	50	tan δ(max)	0.35	0.24	0.20	0.16	0.14	0.12	0.10								
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◆ 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

cap(μf) \ freq. (Hz)	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

Temperatu	~55	65	70	85
FACTOR	1.65	1.50	1.30	1.00

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◆ DIMENSIONS

Voltage	4V		6.3V		10V		16V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10							4*5	23
22			4*5	28	5*5	33	5*5	37
33	4*5	28	5*5	37	5*5	41	6.3*5	49
47	4*5	33	5*5	45	6.3*5	52	6.3*5	58
100	5*5	56	6.3*5	70	6.3*5	96	8*5	100
220	6.3*5	96	6.3*5	70	8*5	115	8*5	120

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

Voltage	25V		35V		50V			
Cap(μF)	Size	Ripple	Size	Ripple				
0.1					4*5	1.0		
0.22					4*5	2.0		
0.33					4*5	2.8		
0.47					4*5	4.0		
1					4*5	8.4		
2.2					4*5	13		
3.3					4*5	17		
4.7	4*5	16	4*5	18	5*5	20		
10	5*5	27	5*5	29	6.3*5	33		
22	6.3*5	42	6.3*5	46				
33	6.3*5	52						
47	4*5	28	4*5	29	4*5	40	5*5	43
	5*5	36	5*5	36	5*5	46	6.3*5	50
100	5*5	48	5*5	48	5*5	57	6.3*5	75
	6.3*5	60	6.3*5	60	6.3*5	69	8*5	88
220	6.3*5	75	6.3*5	82	6.3*5	88	8*5	112
					8*5	105		
330	8*5	80	8*5	90	8*5	132		
470	8*5	88	8*5	100				

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)