

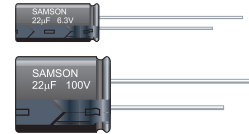
SAMSON

SFA Series

Standard(標準品), For Audio(音響電容)

FEATURES

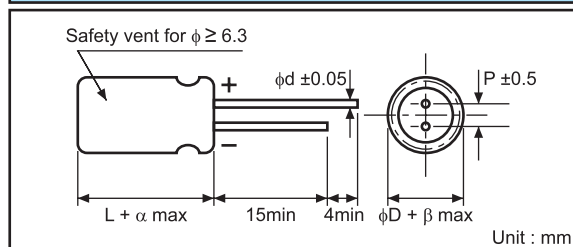
1. Standard, for audio equipment.
2. Low distortion ratio ensured with anti-vibration structures.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +85°C								
Rated Working Voltage Range	6.3 to 100V								
Nominal Capacitance Range	0.1 to 10000µF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	I ≤ 0.01CV or 3(µA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C								
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	63	100
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3	3	3
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp. : +85°C Applied voltage : Rated DC working voltage				Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 150% of initial specified value				
Shelf Life	Test conditions Duration : 500 hours Ambient temp. : +85°C Applied voltage : (None)				Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 150% of initial specified value				
Others	JIS C - 5141 JIS C - 5102								

CASE SIZE TABLE



φD	5	6.3	8	10	12.5	16	18		
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5		
φd	0.5			0.6		0.8			
α	(L < 20) 1.5				(L ≥ 20) 2.0				
β	(D < 20) 0.5				(D ≥ 20) 1.0				

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient					Frequency Coefficient							
Temperature(°C)	~ 55	60	70	85	Cap(µF)	Freq.(Hz)	50	120	300	1K	10K ~	
Factor	1.65	1.50	1.30	1.00			≤ 47	0.75	1.00	1.35	1.57	2.00
							47 ~ 470	0.80	1.00	1.23	1.34	1.50
					≥ 560	0.85	1.00	1.10	1.13	1.15		

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DIMENSIONS									
Voltage (Code)		6.3V		10V		16V		25V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104								
0.22	224								
0.33	334								
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475							5 x 11	22
10	106					5 x 11	31	5 x 11	32
22	226	5 x 11	36	5 x 11	41	5 x 11	46	5 x 11	50
33	336	5 x 11	46	5 x 11	51	5 x 11	57	6.3 x 11	70
47	476	5 x 11	55	5 x 11	60	6.3 x 11	74	6.3 x 11	85
100	107	6.3 x 11	88	6.3 x 11	99	8 x 12	128	8 x 12	140
220	227	8 x 12	155	8 x 12	170	10 x 12.5	226	10 x 16	260
330	337	10 x 12.5	226	10 x 12.5	247	10 x 16	309	10 x 20	351
470	477	10 x 12.5	270	10 x 20	330	10 x 20	406	12.5 x 20	476
1000	108	10 x 20	485	12.5 x 20	601	12.5 x 25	723	16 x 25	854
2200	228	12.5 x 25	867	16 x 25	1047	16 x 25	1209	16 x 35	1570
3300	338	16 x 25	1135	16 x 30	1520	16 x 25	1720	18 x 40	1794
4700	478	16 x 30	1431	16 x 35	1840	18 x 35	2140		
6800	688	18 x 35	1810	18 x 40	2049				
10000	109	18 x 40	2100						

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

Case Size ϕ D x L(mm)

Voltage (Code)		35V		50V		63V		100V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104			5 x 11	1.1			5 x 11	2.3
0.22	224			5 x 11	2.4			5 x 11	5.5
0.33	334			5 x 11	3.6			5 x 11	8.0
0.47	474			5 x 11	5.0			5 x 11	10
1	105			5 x 11	9.0			5 x 11	15
2.2	225			5 x 11	18			5 x 11	22
3.3	335			5 x 11	22			5 x 11	27
4.7	475	5 x 11	24	5 x 11	27			5 x 11	36
10	106	5 x 11	36	5 x 11	39	6.3 x 11	50	8 x 12	65
22	226	6.3 x 11	60	6.3 x 11	65	8 x 12	85	10 x 12.5	110
33	336	6.3 x 11	75	8 x 12	93	8 x 12	105	10 x 16	150
47	476	8 x 12	101	8 x 12	111	10 x 12.5	140	10 x 20	190
100	107	10 x 12.5	176	10 x 16	215	10 x 20	255	12.5 x 20	300
220	227	10 x 20	320	12.5 x 20	390	12.5 x 20	420	16 x 25	549
330	337	12.5 x 20	446	12.5 x 20	488	12.5 x 25	541	16 x 30	734
470	477	12.5 x 25	590	16 x 25	650	16 x 25	840	18 x 35	980
1000	108	16 x 25	1060	16 x 30	1143	18 x 35	1400		
2200	228	18 x 35	1840						
3300	338								
4700	478								
6800	688								
10000	109								

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

Case Size ϕ D x L(mm)