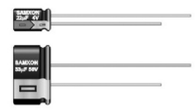
SAMXON®

5mmL(高), General(普通品)

FEATURES

1. Designed for space-saving and high density insertion.
2. 4WV products are standardized for recent battery power source devices.
3. Low price compared to tantalum capacitors.
4. Application: VTR, camera, car audio, mini-audio set, OA related equipment and other industrial and commercial applications.



SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40 to +85°C
Rated Working Voltage Range	4 to 50V
Nominal Capacitance Range	0.1 to 330μF
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

tan δ (120Hz, +20°C)

Working Voltage (V)		4	6.3	10	16	25	35	50
tan δ (max.)	ϕ3	0.40	0.38	0.30	0.23	0.17	0.15	0.13
	ϕ4 - ϕ8	0.35	0.24	0.20	0.16	0.14	0.12	0.10

Low Temperature Characteristics

Impedance ratio max. at 120Hz

Working Voltage (V)	4	6.3	10	16	25	35	50
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
- Duration : 2000 hours
- Ambient temp. : +85°C
- Applied voltage : Rated DC working voltage with rated ripple current

Post test requirements at +20°C
- Leakage current : ≤ Initial specified value
- Cap. change : within ±20% of initial measured value (4V: within ±30%)
- tan δ : ≤ 200% of initial specified value

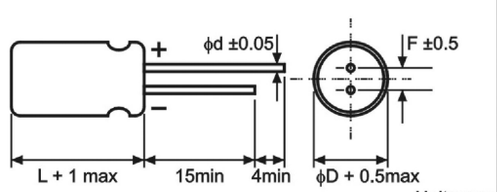
Shelf Life

Test conditions
- Duration : 1000 hours
- Ambient temp. : +85°C
- Applied voltage : (None)

Post test requirements at +20°C
Same limits for high temperature loading.

Others	JIS C - 5101（IEC 60384）

CASE SIZE TABLE



Unit : mm

ϕD	3	4	5	6.3	8
F	1.0	1.5	2.0	2.5	2.5
ϕd	0.4	0.45			

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Cap(μF) \ Coefficient Freq.(Hz)	50	120	300	1k	10k~
≤ 47	0.75	1.00	1.35	1.57	2.00
68 ~ 330	0.80	1.00	1.23	1.34	1.50

PART NUMBER SYSTEM(EXAMPLE:10V47μF)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

E SM 476 M 1A E 05 RR

- RR — Type (Radial Bulk)
- 05 — Case Length (5mm)
- E — Diameter (6.3mm)
- 1A — Voltage (10V)
- M — Tolerance (± 20%)
- 476 — Capacitance (47 μF)
- SM — Series
- E — E-CAP

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STANDARD RATINGS

Voltage (Code)		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)	
Cap.(μF)	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								
10	106							4 x 5	23
22	226			4 x 5	28	4 x 5	29	5 x 5	37
33	336	4 x 5	28	5 x 5	37	5 x 5	41	6.3 x 5	49
47	476	4 x 5	33	5 x 5	45	6.3 x 5	52	6.3 x 5	58
100	107	5 x 5	56	6.3 x 5	70	6.3 x 5	76	6.3 x 5	80
220	227	6.3 x 5	96	8 x 5	110	8 x 5	135		
330	337	8 x 5	145						

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

Case Size ϕD x L(mm)

Voltage (Code)		25V (1E)		35V (1V)		50V (1H)			
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
0.1	104					4 x 5	1.0		
0.22	224					4 x 5	2.0		
0.33	334					4 x 5	2.8		
0.47	474					4 x 5	4.0		
1	105					4 x 5	8.4		
2.2	225					4 x 5	13		
3.3	335			4 x 5	15	4 x 5	17		
4.7	475	4 x 5	16	4 x 5	18	5 x 5	20		
10	106	4 x 5	24	5 x 5	29	6.3 x 5	33		
22	226	6.3 x 5	42	6.3 x 5	46	8 x 5	52		
33	336	6.3 x 5	52	6.3 x 5	53	8 x 5	71		
47	476	6.3 x 5	60	8 x 5	80				
100	107	8 x 5	110						
220	227								
330	337								

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

Case Size ϕD x L(mm)