

SM Series

5mmL(高), General(普通品)

SAMXON®

FEATURES

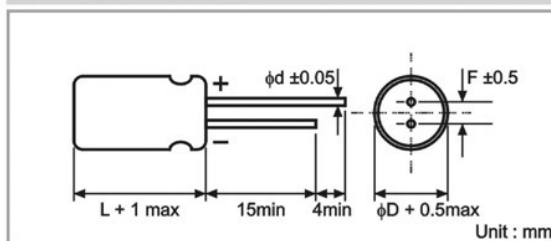
1. Designed for space-saving and high density insertion.
2. 4WV products are standardized for recent battery power source devices.
3. Low price compared to tantalum capacitors.
4. Application: VTR, camera, car audio, mini-audio set, OA related equipment and other industrial and commercial applications.



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 φ4 - φ8	0.40 0.35	0.38 0.24	0.30 0.20	0.23 0.16	0.17 0.14	0.15 0.12	0.13 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				Post test requirements at +20°C					
	Duration : 2000 hours				Leakage current : ≤ Initial specified value					
	Ambient temp. : +85°C				Cap. change : within ±20% of initial measured value (4V: within ±30%)					
	Applied voltage : Rated DC working voltage with rated ripple current				tan δ : ≤ 200% of initial specified value					
Shelf Life	Test conditions				Post test requirements at +20°C					
	Duration : 1000 hours				Leakage current : ≤ Initial specified value					
	Ambient temp. : +85°C				Cap. change : within ±20% of initial measured value (4V: within ±30%)					
	Applied voltage : (None)				tan δ : ≤ 200% of initial specified value					
Others	JIS C - 5101 (IEC 60384)									

CASE SIZE TABLE

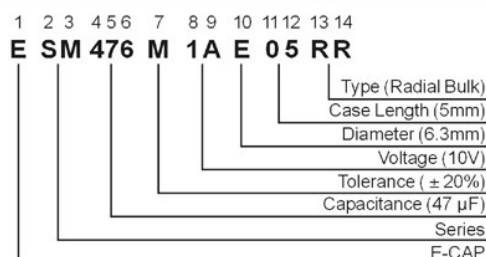


φD	3	4	5	6.3	8
F	1.0	1.5	2.0	2.5	2.5
φd	0.4	0.45			

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Cap(μF)	Coefficient	50	120	300	1k
≤ 47		0.75	1.00	1.35	1.57
68 ~ 330		0.80	1.00	1.23	1.34

PART NUMBER SYSTEM (EXAMPLE:10V47 μ F)



5mmL(高), General(普通品)

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)