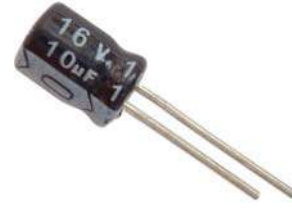


# Miniature Size 7mm Aluminum Electrolytic Capacitor

## SPKE08(105°C) Series



- Design for space-saving and high density insertion.
- Application: VTR, car radio, car stereos, charger, etc.
- For the special designing requirement, please contact us.

### Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Voltage Range	4 to 63VDC								
Capacitance Range	0.1 to 470uF								
Capacitance Tolerance	±20%(120Hz,+20°C)								
Leakage Current (+20°C,max)	I ≤ 0.01CV or 3(uA) After 2 minutes, whichever is greater measured with rated working voltage applied.								
Dissipation Factor(tan δ )	(+20°C, at 120Hz)	Working Voltage(VDC)							
		4	6.3	10	16	25	35	50	63
		D.F.(%)max							
		25	22	20	16	14	12	10	9
Low Temperature Characteristics (120Hz)	impedance ratio max.	Working Voltage(VDC)							
		4	6.3	10	16	25	35	50	63
		Z-25°C/AZ+20°C							
		7	4	3	2	2	2	2	2
		Z-40°C/AZ+20°C							
		15	8	6	4	4	3	3	3
Load Life	Test conditions								
	Duration time : 1000Hrs								
	Ambient temperature : +105°C								
	Applied voltage : Rated DC working voltage								
	After test requirements at +20°C								
	Capacitance change : ≤±20% of the initial measured value(4V:≤±30%)								
	Dissipation factor : ≤200% of the initial specified value								
Leakage current : ≤The initial specified value									
Shelf Life	Test conditions								
	Duration time : 1000Hrs								
	Ambient temperature : +105°C								
	Applied voltage : None								
	After test requirements at +20°C : Same limits as Load life								
	Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes								

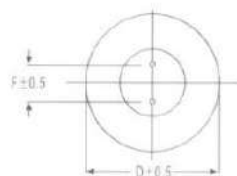
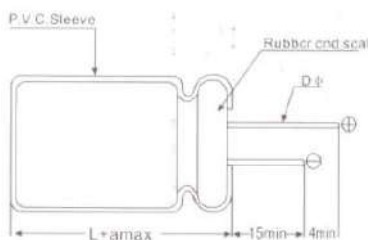
### Multiplier for Ripple Current vs.Frequency

CAP(uF) \ Frequency(Hz)	50(60)	120	400	1K	10K	50K~100K
CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < CAP ≤ 100	0.8	1	1.23	1.36	1.48	1.53
100 < CAP ≤ 470	0.8	1	1.16	1.25	1.25	1.38

### Multiplier for Ripple Current vs.Temperature

Temperature(°C)	45	60	70	85	105
Multiplier	2.1	1.9	1.65	1.4	1

### Diagram of Dimensions:(unit:mm)



Dø	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
dø	0.45	0.5		
a	1.0			1.5

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## ■ Case Size

Φ DXL(mm)

WV(SV) u F	4 (5)		6.3(8)		10(13)		16(20)		25(32)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7									4×7	17
6.8							4×7	20	4×7	21
10							4×7	30	4×7	30
									5×7	33
15					4×7	28	4×7	32	5×7	38
22	4×7	23	4×7	31	4×7	35	4×7	37	5×7	45
							5×7	42	6.3×7	48
33	4×7	26	4×7	32	4×7	40	4×7	45	5×7	52
			5×7	35	5×7	45	5×7	50	6.3×7	60
47	4×7	35	4×7	40	4×7	47	5×7	61	6.3×7	68
			5×7	47	5×7	51	6.3×7	67	8×7	72
68	5×7	55	5×7	55	5×7	60	6.3×7	72	6.3×7	75
					6.3×7	68				
100	5×7	58	5×7	65	5×7	80	6.3×7	95	8×7	115
			6.3×7	75	6.3×7	90	8×7	105		
220	6.3×7	65	6.3×7	90	6.3×7	105	6.3×7	186		
			8×7	120	8×7	150				
330	6.3×7	90	8×7	120	8×9	201				
470	8×7	120	8×9	243	8×9	230				

WV(SV) u F	35 (44)		50 (63)		63 (79)	
	Size	Ripple	Size	Ripple	Size	Ripple
0.1			4×7	1.5	4×7	1.5
0.15			4×7	1.8	4×7	1.8
0.22			4×7	2.5	4×7	2.5
0.33			4×7	3.5	4×7	3.5
0.47			4×7	5	4×7	6
0.68			4×7	7	4×7	7
1			4×7	10	4×7	12
1.5			4×7	13	4×7	14
2.2			4×7	19	4×7	19
3.3			4×7	24	5×7	25
4.7	4×7	22	4×7	27	5×7	29
			5×7	29	6.3×7	33
6.8	4×7	24	5×7	32	6.3×7	35
	5×7	28	6.3×7	33		
10	4×7	30	5×7	35	6.3×7	40
	5×7	35	6.3×7	38		
15	5×7	38	6.3×7	52	8×7	55
	6.3×7	45				
22	5×7	50	6.3×7	60	8×7	65
	6.3×7	58	8×7	63		
33	6.3×7	54	8×7	78		
	8×7	68				
47	8×7	80				
68	8×7	85				

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