

Snap-In Terminal Aluminum Electrolytic Capacitor 105'C

SPKE16(105°C) Series

- Highly reliable capacitors with high ripple current.
- Two or three dimensions with same ratings.
- Terminal spacing fixed at 10 mm for printed circuit board plug in.
- Aluminum case designed explosion-proof vent
- Best for switching power supplies.
- For the special designing requirement, please contact us.

Specifications

Item	Performance Characteristics													
Operating Temperature Range	-40 to +105°C				-25 to +105°C									
Rated Voltage Range	10 to 100VDC				160 to 500VDC									
Capacitance Range	330 to 68000uF				33 to 2200uF									
Capacitance Tolerance	±20%(120Hz,+20°C)													
Leakage Current (+20°C,max)	I≤0.02 CV After 5 minutes, with rated working voltage applied.													
Dissipation Factor(tan δ)	Less than value under table (%) (+20°C,at 120Hz)	Uf \ WVDC	10~16	25~35	50~63	80~100	160~250	315~500						
		47~390				15	15	20						
		470~3900	25	20	20	20	15	20						
		4700~8200	35	30	30	25								
		10000~22000	40	35	30									
		27000~47000	45	40	35									
		57000~68000	50	45										
Low Temperature Characteristics (120Hz)	impedance ratio max.	Rated voltage(v)	10	16	25	35	50	63	100	160	200	250	400~500	
		Z-25°C/+20°C	5	5	4	4	4	4	4	4	4	4	8	
		Z-40°C/+20°C	15	12	15	12	12	12	12	12				
Load Life	<p>Test conditions Duration time : 2000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirements at +20°C Capacitance change : ≤±20% of the initial measured value Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value</p>													
Shelf Life	<p>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</p>													

Multiplier for Ripple Current vs. Frequency

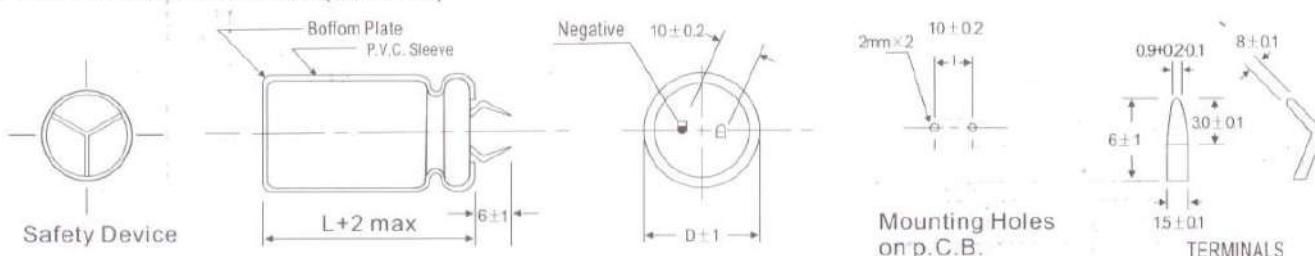
CAP(uF) \ Frequency(Hz)	50(60)	120	400	1k	10k	50k~100k
10<CAP≤100	0.8	1	1.23	1.36	1.48	1.53
100<CAP≤1000	0.8	1	1.16	1.25	1.35	1.38
100<CAP	0.8	1	1.11	1.17	1.25	1.28

Multiplier for Ripple Current vs. Temperature

Temperature(°C)	45	60	85	95	105
Multiplier	2.1	1.9	1.4	1.25	1.00

Diagram of Dimensions:(unit:mm)

SYMBOL G.T.C.B.TERMINAL(SNAP-IN)



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■ Case Size

$\phi D \times L$ (mm)

WV(SV) uF	350(400)								400(450)							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68	22×25	0.56							22×25	0.47						
100	22×30	0.7	25×25	0.7					22×30	0.60						
120	22×35	0.73							22×35	0.65	25×30	0.70	30×25	0.78		
150	22×40	0.79	25×30	0.82	30×25	0.82			22×40	0.70	25×35	0.73				
180	22×45	0.81	25×35	0.89	30×30	0.9			22×50	0.78	25×40	0.82	30×30	0.83	35×25	0.86
220	22×50	0.93	25×40	0.97	35×25	0.98					25×45	0.87	30×35	0.96		
270			25×50	1.01	30×35	1.05	35×30	1.01			25×50	0.94	30×40	0.95	35×30	0.91
330					30×45	1.16	35×35	1.16					30×45	1.11	35×35	1.13
390					30×50	1.26	35×40	1.26					30×50	1.15	35×40	1.26
470							35×45	1.35							35×45	1.31
560							35×50	1.51							35×50	1.50
WV(SV) uF	450(500)								500(550)							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
39									22×30	0.35						
47									22×35	0.41						
56	22×25	0.47							22×40	0.47						
68	22×30	0.56	25×25	0.56					22×45	0.54						
82	22×35	0.65									25×40	0.62				
100	22×40	0.70	25×30	0.70	30×25	0.78					25×45	0.67				
120	22×45	0.73	25×35	0.73							25×50	0.77			35×30	0.72
150	22×50	0.78	25×40	0.82	30×30	0.83	35×25	0.86					30×40	0.85		
180			25×45	0.87	30×35	0.86							30×50	1.01		
220			25×50	0.94	30×40	0.95	35×30	0.91							35×45	1.12
270					30×45	1.11	35×35	1.13							35×50	1.29
330					30×50	1.15	35×40	1.26								
390							35×45	1.31								
470							35×50	1.50								

Ripple Current (A,rms) at 105°C 120Hz