

Screw Terminal Aluminum Electrolytic Capacitor 105°C

SPKE17(105°C) Series

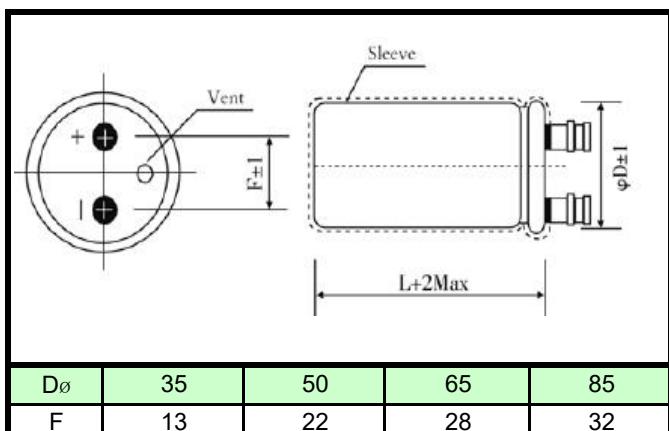
- Load life of 2000 hours at 105°C
- high ripple current
- Used for computers powers, Hi-ripple circuit of electric vehicle, electric train, general-purpose inverter etc..
- For the special designing requirement,please contact us.



■ Specifications

Item	Performance Characteristics		
Operating Temperature Range	-25 to +105°C		
Rated Voltage Range	160 to 450VDC		
Capacitance Range	270 to 39000uF		
Capacitance Tolerance	±20%(120Hz,+20°C)		
Leakage Current (+20°C,max)	$I \leq 0.02CV$ or 5mA, whichever is smaller.(after 5 minutes)		
Dissipation Factor(tanδ)	Rated Voltage(V)	160~250	350~450
	tanδ	0.25	0.2
Load Life	Test conditions Duration time : 2000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirements at +20°C Capacitance change : $\leq \pm 20\%$ of the initial measured value Dissipation factor : $\leq 200\%$ of the initial specified value Leakage current : \leq The initial specified value		
Shelf Life	Test conditions Duration time : 500Hrs Ambient temperature : +105°C Applied voltage : None After test requirements at +20°C : Same limits as Load life After Test : Rated voltage to be applied for 60 minutes,24 to 48 hours before measurement		

■ Diagram of Dimensions:(unit:mm)



■ Multiplier For Ripple Current

Frequency coefficient

Frequency(Hz)	50,60	120	300	1K	$\geq 10K$
Coefficient	0.7	1	1.1	1.3	1.4

Temperature coefficient

Temperature(°C)	+70	+85	+105
Coefficient	2.1	1.7	1.0

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■ Case Size

WV uF	160		200		250		350		400		450	
	Size	Ripple										
270											35x53	3.70
330								35x43	4.1	35x83	4.9	
389							35x53	4.5	35x83	5.3	35x83	4.3
470							35x83	5.8	35x83	5.8	35x83	5.6
560							35x83	6.4	35x100	6.4	35x100	6.9
680							35x83	7.0	35x100	7.6	35x100	7.6
820							35x100	8.3	35x100	8.3	50x75	8.6
1000							50x75	9.2	50x75	9.4	50x75	9.4
1200							50x75	10.3	50x75	10.3	50x96	11.4
1500					35x100	8.7	50x96	11.5	50x96	12.7	50x115	13.7
1800					35x100	9.5	50x96	13.9	50x96	13.9	50x130	15.8
2200			35x100	10.6	50x75	10.8	50x130	15.4	50x115	17.4	65x96	17.0
2700			35x121	12.7	50x75	12.0	50x130	19.3	50x130	18.8	65x110	20.2
3300	35X121	14	50x75	13.3	50x96	14.6	65x115	21.4	65x120	22.2	65x130	23.4
1890	50x75	14.4	50x75	14.4	50x115	17.0	65x130	24.2	65x130	25.4	76x110	25.6
4700	50x75	15.8	50x96	17.4	65x96	19.2	65x130	27.9	76x120	28.2	76x130	29.4
5600	50x96	19	50x115	20.4	65x96	21.0	76x115	30.7	76x130	32.2	76x157	34.6
6800	50x96	21	50x130	12.7	65x115	24.7	76x155	35.4	76x155	38.0	89x157	40.5
8200	50x115	24.7	65x96	25.4	65x115	27.1	76x155	41.7	89x157	44.4	89x157	44.6
10000	65x96	28	65x96	28	65x130	31.5	89x157	49	89x157	49.4	89x196	53.9
12000	65x96	30.6	76x96	32.6	76x115	34.8	89x157	54.1	89x196	59.1	89x236	63.8
15000	65x130	38.6	76x96	39	76x130	40.8	89x196	66.2	89x236	71.1		
18000	65x130	42.2	76x130	44.6	76x155	57.8	86x236	76.9				
22000	76x130	49.4	76x155	53	89x157	56.5						
27000	76x130	54.7	89x131	58.2								
33000	89x131	65.2	89x157	69								
39000	90x157	75.3										

Ripple Current (mA,rms) at 40°C,100Hz or 120Hz

The specific capacitance and case size are available as per request.