

Bi-Polar Aluminum Electrolytic Capacitor

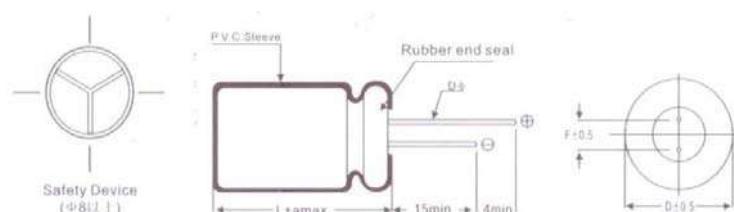
WS series

- +105°C, Bi-polar Standard series, use in polarity reverse and change circuits
- For the special designing requirement, please contact us.

■ Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Voltage Range	6.3 to 100VDC								
Capacitance Range	0.47 to 6800uF								
Capacitance Tolerance	$\pm 20\%$ (120Hz,+20°C)								
Leakage current	$I \leq 0.03CV + 3(\mu F)$ at 20°C, after 2 minutes								
Dissipation Factor($\tan\delta$) (+20°C, at 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100
	D.F.(%)max	0.28	0.24	0.22	0.2	0.15	0.14	0.1	0.09
Low Temperature Characteristics (Impedance ratio at 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100
	Z-25°C/+20°C	4	3	2	2	2	2	2	2
	Z-40°C/+20°C	10	8	6	5	4	4	3	3
Load Life	Test conditions								
	Duration time	: 1000 Hrs							
	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							
Shelf Life	Leakage current	: \leq The initial specified value							
	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								

■ Diagram of Dimensions:(unit:mm)



$D\phi$	5	6.3	8	10	13	16	18
F	2	2.5	3.5	5	5	7.5	7.5
$d\phi$	0.5	0.5	0.6			0.8	

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■ Case Size

WV uF	øD×L (mm)									
	6.3V		10V		16V		25V		35V	
Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.47										
1										
2.2										
3.3										
4.7									5x11	34
10				5x11	47	5x11	42	5x11	43	
22		5x11	57	5x11	57	6.3x11	65	6.3x11	73	
33	5x11	64	5x11	64	5x11	40	6.3x11	80	8x12	100
47	5x11	76	5x11	76	6.3x11	95	6.3x11	95	8x12	120
100	6.3x11	125	6.3x11	125	8x12	160	8x12	160	10x16	230
220	8x12	215	8x12	215	10x13	275	10x16	305	13x20	410
330	8x12	265	10x16	345	10x16	375	13x20	450	13x20	505
470	10x13	370	10x16	410	10x20	485	13x20	540	13x25	655
1000	10x20	650	13x20	720	16x25	855	16x25	950	16x30	1140
2200	13x25	1160	16x25	1280	16x30	1510	18x35	1620		
3300	16x25	1570	18x30	1690	18x35	1980				
4700	16x30	2020	18x35	2160						
6800	18x35	2600								

Rated ripple current (mA, +105°C, 120KHz)