

**AU**

High Temperature · Long Life Series

New

- Endurance: 135°C 1000~3000小时
- Recommended Applications : Applicable for Electronic Ballast,Lighting Ballast
- Corresponding product to RoHS

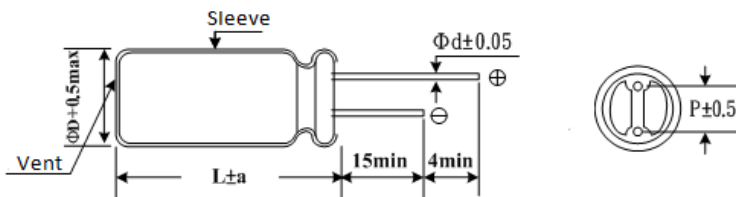
**AU**  
↑ High Temperature  
AT



**SPECIFICATIONS**

Item	Characteristics																												
Category Temperature Range	-40 ~ +135°C																												
Rated Voltage Range	10~63VDC																												
Rated Capacitance Range	22~ 4700 µF																												
Capacitance Tolerance	± 20 % (120Hz , 20°C)																												
Leakage Current (20°C)	I=0.03CV or 4(µA)whichever is greater. (After rated voltage applied for 1 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)																												
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> </tr> </table>	WV	10	16	25	35	50	63	tan δ	0.20	0.16	0.14	0.12	0.10	0.09														
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tan δ	0.20	0.16	0.14	0.12	0.10	0.09																							
When nominal capacitance is over 1000 µF,tan δ shall be added 0.02 to the listed value with increase of every 1000 µF.																													
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>WV</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Z(120Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	WV	10	16	25	35	50	63	Z(120Hz)							Z-25°C / Z+20°C	3	2	2	2	2	2	Z-40°C / Z+20°C	6	4	4	4	4	4
	WV	10	16	25	35	50	63																						
	Z(120Hz)																												
Z-25°C / Z+20°C	3	2	2	2	2	2																							
Z-40°C / Z+20°C	6	4	4	4	4	4																							
After applying rated voltage with rated ripple current for 1000~3000 hours at 135°C, the capacitors shall meet the following requirements.																													
Endurance	Rated Voltage Range	10~63VDC																											
	Capacitance change	Within ±30% of initial value																											
	D.F. (tan δ)	Not more than300% of specified value																											
	Leakage current	initial specified value or less																											
	DΦ	8Φ      10Φ      ≥12.5Φ																											
	Life(hours)	1000      2000      3000																											
Shelf Life	After placed at 130°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.																												
	Rated Voltage Range	10~63VDC																											
	Capacitance change	Within ±30% of initial value																											
	D.F. (tan δ)	Not more than300% of specified value																											
	Leakage current	initial specified value or less																											

**Dimensions [mm]**



ΦD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0

**Multiplier for Ripple Current**

Freq. (Hz)		120	1K	10K	≥100K
10~63WV	CAP:<100µF	0.40	0.75	0.90	1.00
	CAP:100~470µF	0.50	0.85	0.94	1.00
	CAP:>470µF	0.60	0.87	0.95	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms130°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms130°C) (100KHz)
10(13)	220	8x11	0.20	340	35(44)	100	10x12	0.12	620
	330	10x12	0.20	490		220	10x16	0.12	790
	470	10x15	0.20	640		330	10x20	0.12	950
	1000	10x20	0.20	1060		470	12.5x20	0.12	1330
	2200	12.5x25	0.24	1750		1000	16x25	0.12	2010
	3300	16x25	0.26	2300		50(63)	33	8x11	0.10
	4700	16x32	0.28	2710	47		8x11	0.10	440
16(20)	100	8x11	0.16	340	100		10x12	0.10	555
	220	10x12	0.16	595	220		10x20	0.10	930
	330	10x15	0.16	680	330		12.5x20	0.10	1330
	470	10x16	0.16	945	470		12.5x25	0.10	1650
	1000	12.5x20	0.16	1490	1000	16x32	0.10	2340	
	2200	16x25	0.20	2300	63(79)	22	8x11	0.09	130
	3300	16x32	0.22	2710		33	8x11	0.09	150
25(32)	100	8x11	0.14	500		47	10x12	0.09	230
	220	10x12	0.14	680		100	10x16	0.09	370
	330	10x16	0.14	945		220	12.5x20	0.09	685
	470	10x20	0.14	1100		330	12.5x25	0.09	925
	1000	12.5x25	0.14	1750		470	12.5x35	0.09	1280
	2200	16x32	0.18	2710		1000	16x32	0.09	2060