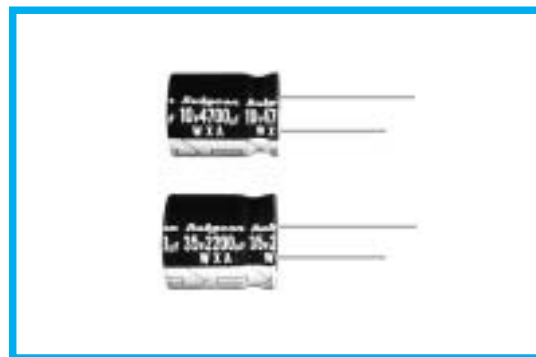
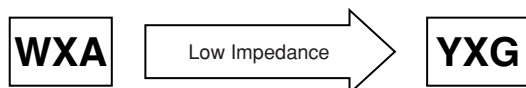


WXA SERIES

105°C Miniaturized low profile.

◆ FEATURES

- 9~25mm height.
- RoHS compliance.



◆ SPECIFICATIONS

Items	Characteristics																																																			
Category Temperature Range	-55~+105℃					-40~+105℃					-25~+105℃																																									
Rated Voltage Range	6.3~50V.DC					160~250V.DC					350~450V.DC																																									
Capacitance Tolerance	±20%(20℃, 120Hz)																																																			
Leakage Current(MAX)	6.3~50V.DC							160~450V.DC																																												
	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage)							CV≤1000			CV>1000																																									
								I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)			I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)																																									
	I=Leakage Current(μA)				C=Rated Capacitance(μF)				V=Rated Voltage(V)																																											
Dissipation Factor(MAX) (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>tan δ</td><td>φ 8, φ 10</td><td>0.30</td><td>0.26</td><td>0.20</td><td>0.18</td><td>0.14</td><td>0.12</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.25</td></tr><tr><td></td><td>φ12.5~φ18</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.25</td></tr></table> (20℃, 120Hz)													Rated Voltage (V)	6.3	10	16	25	35	50	160	200	250	350	400	450	tan δ	φ 8, φ 10	0.30	0.26	0.20	0.18	0.14	0.12	0.20	0.20	0.20	0.20	0.25		φ12.5~φ18	0.26	0.22	0.18	0.16	0.14	0.12	0.20	0.20	0.20	0.20	0.25
	Rated Voltage (V)	6.3	10	16	25	35	50	160	200	250	350	400	450																																							
	tan δ	φ 8, φ 10	0.30	0.26	0.20	0.18	0.14	0.12	0.20	0.20	0.20	0.20	0.25																																							
	φ12.5~φ18	0.26	0.22	0.18	0.16	0.14	0.12	0.20	0.20	0.20	0.20	0.25																																								
When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.																																																				
Endurance	After applying rated voltage with rated ripple current for 2000hrs at 105℃, the capacitors shall meet the following requirements.																																																			
	Capacitance Change				Within ±25% of the initial value.																																															
	Dissipation Factor				Not more than 200% of the specified value.																																															
	Leakage Current				Not more than the specified value.																																															
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>6</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td></tr></table> (120Hz)													Rated Voltage (V)	6.3	10	16	25	35	50	160	200	250	350	400	450	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	3	3	3	6	6	6	Z(-40℃)/Z(20℃)	8	6	4	4	3	3	—	—	—	—	—	—
	Rated Voltage (V)	6.3	10	16	25	35	50	160	200	250	350	400	450																																							
	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	3	3	3	6	6	6																																							
Z(-40℃)/Z(20℃)	8	6	4	4	3	3	—	—	—	—	—	—																																								

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

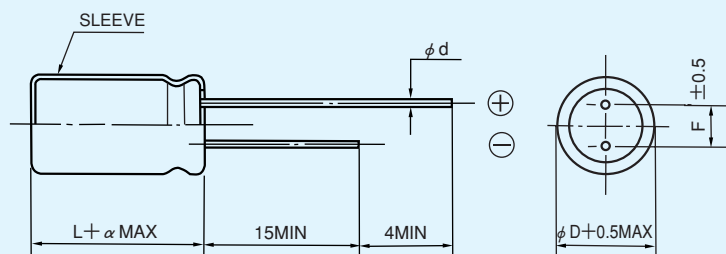
Frequency (Hz)		60(50)	120	500	1k	10k $\leq$
Coefficient	1.5 $\sim$ 6.8 μ F	0.65	1.0	1.20	1.30	1.50
	10 $\sim$ 68 μ F	0.8	1.0	1.20	1.30	1.50
	100 $\sim$ 1000 μ F	0.8	1.0	1.10	1.15	1.20
	2200 $\sim$ 10000 μ F	0.8	1.0	1.05	1.10	1.15

◆PART NUMBER

□□□ Rated Voltage	WXA Series	□□□□□ Rated Capacitance	□ Capacitance Tolerance	□□□ Option	□□ Lead Forming	D×L Case Size
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◆ DIMENSIONS

(mm)



ϕD	8	10	12.5	16	18
ϕd	0.6			0.8	
F	3.5	5.0		7.5	
α	$L \leq 16 : \alpha = 1.5$ $L \geq 20 : \alpha = 2.0$				

◆STANDARD SIZE, RATED RIPPLE CURRENT

Size ϕ D×L(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
100											8×9	200
150									8×9	250	10×9	300
220							8×9	240	10×9	300		
330					8×9	270	10×9	310	10×9	360		
470	8×9	270	8×9	295	8×9	310	10×9	370			12.5×16	570
680	8×9	300	10×9	350	10×9	370	12.5×16	640	12.5×16	640	16×16	710
1000	10×9	460	10×9	460			12.5×16	670	16×16	850	16×20	890
2200	12.5×16	770	12.5×16	770	16×16	930	16×20	1100	18×20	1200	18×25	1320
3300	16×16	930	16×16	930	16×20	1200	18×20	1200	18×25	1490		
4700	18×16	1000	16×20	1200	18×20	1330	18×25	1490				
6800	16×20	1200	18×20	1330	18×25	1680						
10000	18×20	1430	18×25	1680								

[illegible]