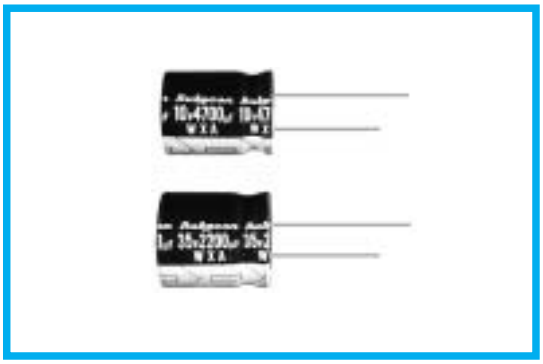
WXA SERIES

105℃ Miniaturized low profile.



◆FEATURES

- 9～25mm height.
- RoHS compliance.

WXA → Low Impedance → YXG

◆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	
		CV≦1000	CV＞1000
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)	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) (tanδ)

Rated Voltage (V)		6.3	10	16	25	35	50	160	200	250	350	400	450
tanδ	φ8, φ10	0.30	0.26	0.20	0.18	0.14	0.12	0.20	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	0.20	0.25

(20℃, 120Hz)

When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.

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)

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	—	—	—	—	—	—

(120Hz)

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

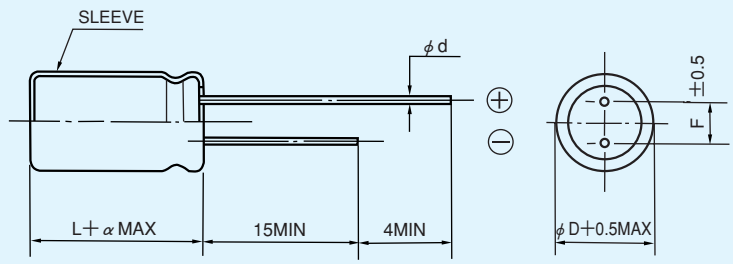
Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	1.5～6.8μF	0.65	1.0	1.20	1.30	1.50
	10～68μF	0.8	1.0	1.20	1.30	1.50
	100～1000μF	0.8	1.0	1.10	1.15	1.20
	2200～10000μF	0.8	1.0	1.05	1.10	1.15

◆PART NUMBER

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

◆DIMENSIONS

(mm)



φD	8	10	12.5	16	18
φd	0.6			0.8	
F	3.5	5.0		7.5	
α	L≦16 : α=1.5 L≧20 : α=2.0				

◆STANDARD SIZE, RATED RIPPLE CURRENT

Size φD×L(mm), Ripple Current (mA r.m.s./105℃, 120Hz)

WV(V.DC) / 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								

WV(V.DC) / Cap(μF)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.5											8×9	19
2.2									8×9	35	10×9	29
3.3							8×9	37	10×9	40		
4.7	8×9	54	8×9	54	8×9	54	10×9	49	10×9	49		
6.8	8×9	60	8×9	60	10×9	69	12.5×16	94	12.5×16	94	12.5×16	77
10	10×9	85	10×9	85			12.5×16	100	12.5×16	100	16×16	109
22			12.5×16	156	12.5×16	156	18×16	183	16×20	187	16×20	170
33	12.5×16	175	12.5×16	175	16×16	238	16×20	238	16×20	238	18×25	238
47	16×16	245	16×16	250	18×16	309	18×20	309	18×20	309	18×25	275
68	18×16	305	16×20	355	16×20	397	18×25	397				
100	16×20	381	16×20	381	18×25	451						
150	18×20	464	18×25	532								
220	18×25	602										