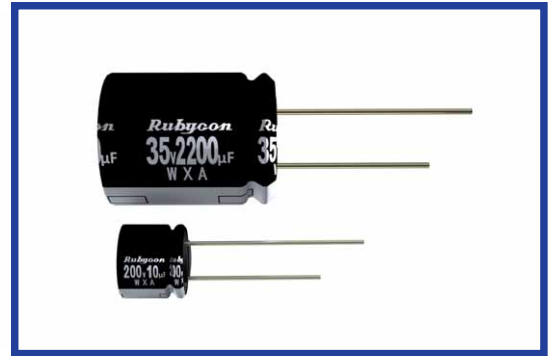


WXA SERIES
105°C 9mm~25mm Height

- Load Life : 105°C 2000 hours.
- AEC-Q200.

RoHS compliance


◆SPECIFICATIONS

Items	Characteristics																																																		
Category Temperature Range	-55~+105°C	-40~+105°C	-25~+105°C																																																
Rated Voltage Range	6.3~50Vdc	160~250Vdc	350~450Vdc																																																
Capacitance Tolerance	±20%(20°C, 120Hz)																																																		
Leakage Current(MAX)	6.3~50Vdc		160~450Vdc																																																
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)		CV≤1000																																																
			CV>1000																																																
		I=0.1CV+40μA (1minute)	I=0.04CV+100μA (1minute)																																																
		I=0.03CV+15μA (5minutes)	I=0.02CV+25μA (5minutes)																																																
		I=Leakage Current(μA)	C=Capacitance(μF) V=Rated Voltage(Vdc)																																																
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>φ8, φ10</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> </tbody> </table>											Rated Voltage (Vdc)	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	0.25		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	(20°C, 120Hz)
	Rated Voltage (Vdc)	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	0.25																																							
	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 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 2000 hours at 105°C, 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 border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</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°C)/Z(20°C)</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> </tbody> </table>											Rated Voltage (Vdc)	6.3	10	16	25	35	50	160	200	250	350	400	450	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	3	3	3	6	6	6	Z(-40°C)/Z(20°C)	8	6	4	4	3	3	-	-	-	-	-	-	(120Hz)
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	160	200	250	350	400	450																																						
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	3	3	3	6	6	6																																						
Z(-40°C)/Z(20°C)	8	6	4	4	3	3	-	-	-	-	-	-																																							

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	1.5~6.8μF	0.65	1.00	1.20	1.30	1.50
	10~68μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200~10000μF	0.80	1.00	1.05	1.10	1.15

◆OPTION

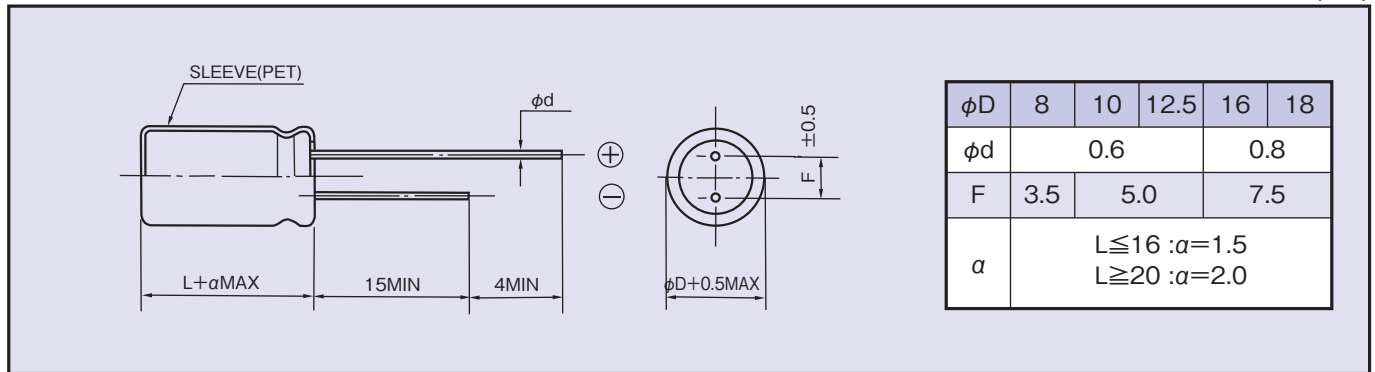
	Code
PET Sleeve	EFC

◆PART NUMBER

□□□	WXA	□□□□□	M	□□□	□□	DXL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

Cap(μF)	6.3		10		16		25		35		50	
	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								

Cap(μF)	160		200		250		350		400		450	
	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										