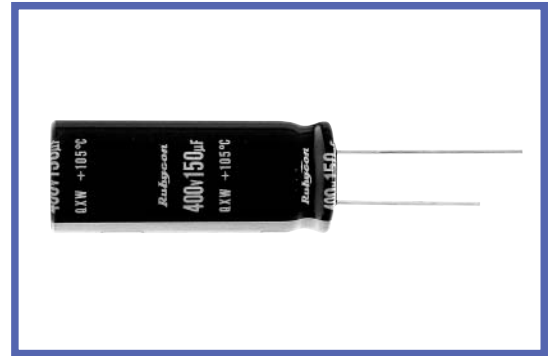


**QXW SERIES**
**105°C Ultra Miniaturized**
**◆FEATURES**

- Load Life : 105°C 2000 hours.
- Body diameter of  $\phi$  10mm to  $\phi$ 18mm with high ripple current capability.
- This series is one class smaller than the current KXW series.
- RoHS compliance.


**◆SPECIFICATIONS**

Items	Characteristics							
Category Temperature Range	-25~ +105°C							
Rated Voltage Range	400~ 450V.DC							
Capacitance Tolerance	±20% (20°C, 120Hz)							
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) $I$ =Leakage Current( $\mu$ A) $C$ =Rated Capacitance( $\mu$ F) $V$ =Rated Voltage(V)							
(tan $\delta$ ) Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>400</td> <td>420,450</td> </tr> <tr> <td>tan <math>\delta</math></td> <td>0.15</td> <td>0.2</td> </tr> </table>	Rated Voltage(V)	400	420,450	tan $\delta$	0.15	0.2	(20°C, 120Hz)
Rated Voltage(V)	400	420,450						
tan $\delta$	0.15	0.2						
Endurance	After applying rated voltage with rated ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within <math>\pm</math>20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within $\pm$ 20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.
Capacitance Change	Within $\pm$ 20% of the initial value.							
Dissipation Factor	Not more than 200% of the specified value.							
Leakage Current	Not more than the specified value.							
Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>400~450</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> </tr> </table>	Rated Voltage(V)	400~450	Z(-25°C)/Z(20°C)	8	(120Hz)		
Rated Voltage(V)	400~450							
Z(-25°C)/Z(20°C)	8							

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k $\leq$
Coefficient	400~ 450WV	0.8	1.00	1.25	1.40	1.50

**◆PART NUMBER**

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

**◆OPTION**

	Code
PET Sleeve	EFC

◆ **DIMENSIONS**

(mm)

$\phi D$	10	12.5	14.5	16	18
$\phi d$	0.6		0.8		
F	5.0		7.5		
$\alpha$	2.0				

◆ **STANDARD SIZE**

WV Cap ( $\mu F$ )	400					420				
	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$
33	10×30 : 0.33					10×30 : 0.32				
39	10×35 : 0.37					10×35 : 0.36				
47	10×40 : 0.43					10×40 : 0.41				
56	10×45 : 0.48	12.5×30 : 0.47				10×50 : 0.49	12.5×30 : 0.46			
68		12.5×35 : 0.54					12.5×35 : 0.53			
82		12.5×40 : 0.62	14.5×31.5 : 0.61				12.5×45 : 0.63	14.5×31.5 : 0.6		
100		12.5×50 : 0.73	14.5×35 : 0.70	16×31.5 : 0.71			12.5×50 : 0.71	14.5×40 : 0.72	16×31.5 : 0.69	
120			14.5×40 : 0.79	16×35 : 0.80				14.5×45 : 0.81	16×35 : 0.78	18×31.5 : 0.8
150			14.5×50 : 0.94	16×40 : 0.92	18×31.5 : 0.89				16×45 : 0.94	18×35 : 0.92
180				16×50 : 1.08	18×40 : 1.06				16×50 : 1.05	18×40 : 1.04
220					18×45 : 1.20					18×50 : 1.22

WV Cap ( $\mu F$ )	450				
	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$
27	10×30 : 0.30				
33	10×35 : 0.34				
39	10×40 : 0.39				
47	10×45 : 0.44	12.5×30 : 0.43			
56		12.5×35 : 0.49			
68		12.5×40 : 0.56	14.5×31.5 : 0.56		
82		12.5×45 : 0.63	14.5×35 : 0.63	16×31.5 : 0.64	
100			14.5×40 : 0.72	16×35 : 0.73	
120			14.5×50 : 0.85	16×40 : 0.82	18×31.5 : 0.80
150				16×50 : 0.98	18×40 : 0.97
180					18×45 : 1.09
220					18×50 : 1.22

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