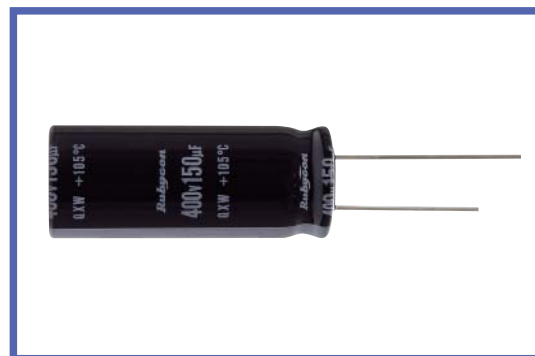


QXW SERIES
NEW
◆ FEATURES

- Load Life : 105°C 2000 hours.
- Body diameter of ϕ 10mm to ϕ 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, 420, 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(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)							
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>400</th> <th>420,450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.15</td> <td>0.2</td> </tr> </tbody> </table>	Rated Voltage (V)	400	420,450	tanδ	0.15	0.2	(20°C, 120Hz)
Rated Voltage (V)	400	420,450						
tanδ	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"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±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> </tbody> </table>		Capacitance Change	Within ±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 ±20% of the initial value.							
Dissipation Factor	Not more than 200% of the specified value.							
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Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> </tr> </tbody> </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	120	500	1k	10k≤
Coefficient	0.8	1.00	1.25	1.40	1.50

◆ PART NUMBER

□□□	QXW	□□□□□	□	EFC	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ **DIMENSIONS**

(mm)

ϕD	10	12.5	14.5	16	18
ϕd	0.6		0.8		
F	5.0		7.5		
α	2.0				

◆ **STANDARD SIZE**

Cap (μF)	WV ϕD	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	10x30	0.33					10x30	0.32				
39	10x35	0.37					10x35	0.36				
47	10x40	0.43					10x40	0.41				
56	10x45	0.48	12.5x30	0.47			10x50	0.49	12.5x30	0.46		
68			12.5x35	0.54					12.5x35	0.53		
82			12.5x40	0.62	14.5x31.5	0.61			12.5x45	0.63	14.5x31.5	0.6
100			12.5x50	0.73	14.5x35	0.70	16x31.5	0.71				
120					14.5x40	0.79	16x35	0.80				
150					14.5x50	0.94	16x40	0.92	18x31.5	0.89		
180							16x50	1.08	18x40	1.06		
220											18x40	1.04
											18x50	1.22

Cap (μF)	WV ϕD	450								
		$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$				
27	10x30	0.30								
33	10x35	0.34								
39	10x40	0.39								
47	10x45	0.44	12.5x30	0.43						
56			12.5x35	0.49						
68			12.5x40	0.56	14.5x31.5	0.56				
82			12.5x45	0.63	14.5x35	0.63	16x31.5	0.64		
100					14.5x40	0.72	16x35	0.73		
120					14.5x50	0.85	16x40	0.82	18x31.5	0.80
150							16x50	0.98	18x40	0.97
180									18x45	1.09
220									18x50	1.22

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