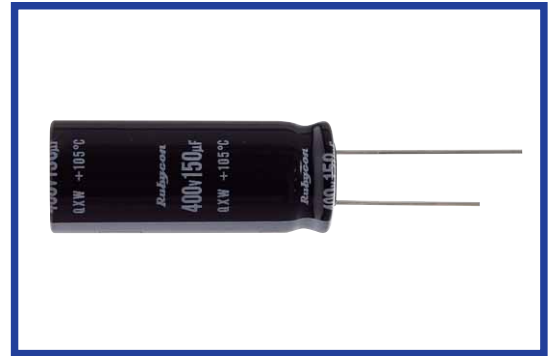


QXW SERIES
105°C Ultra Miniaturized
◆FEATURES

- Load Life : 105°C 2000 hours. (Temperature Range:-40°C~+105°C)
- Body diameter of $\phi 10\text{mm}$ to $\phi 18\text{mm}$ with high ripple current capability.
- This series is one class smaller than the current KXW series.
- RoHS compliance.


◆SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-40~+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(μA) C =Capacitance(μF) V =Rated Voltage(V)								
Dissipation Factor(MAX) ($\tan\delta$)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>400</td> <td>420, 450</td> </tr> <tr> <td>$\tan\delta$</td> <td>0.15</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	400	420, 450	$\tan\delta$	0.15	0.20	(20°C, 120Hz)	
Rated Voltage (V)	400	420, 450							
$\tan\delta$	0.15	0.20							
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <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> </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.								
Leakage Current	Not more than the specified value.								
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>400</td> <td>420, 450</td> </tr> <tr> <td>$Z(-25^\circ\text{C})/Z(20^\circ\text{C})$</td> <td>5</td> <td>6</td> </tr> </table>	Rated Voltage (V)	400	420, 450	$Z(-25^\circ\text{C})/Z(20^\circ\text{C})$	5	6	(120Hz)	
Rated Voltage (V)	400	420, 450							
$Z(-25^\circ\text{C})/Z(20^\circ\text{C})$	5	6							

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k \leq
Coefficient	0.8	1.00	1.25	1.40	1.50

◆OPTION

	Code
PET Sleeve(-40~+105°C)	EFR ※

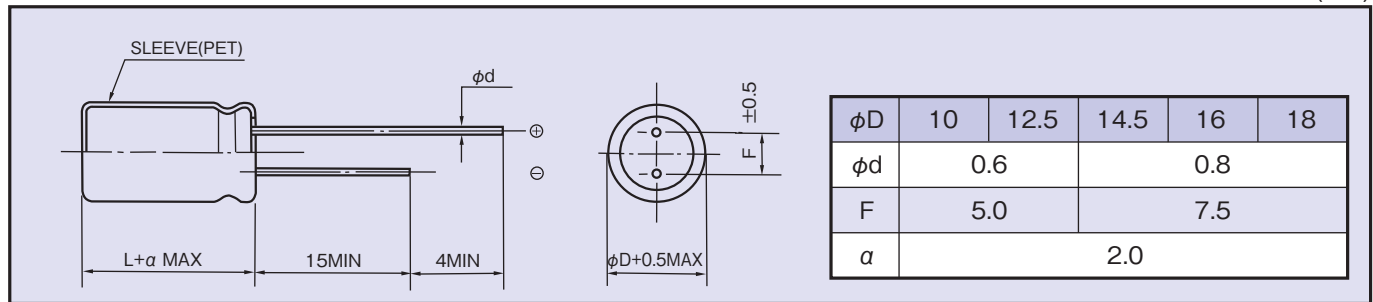
※PET Sleeve -25~+105°C(EFC) is also available, please consult our sales offices.

◆PART NUMBER

<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u>
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Rated Voltage (V.DC)	Capacitance (μF)	Size $\phi D \times L$ (mm)	Rated Ripple Current (A r.m.s.105°C,120Hz)
400	33	10×30	0.33
	39	10×35	0.37
	47	10×40	0.43
	56	10×45	0.48
	56	12.5×30	0.47
	68	12.5×35	0.54
	82	12.5×40	0.62
	82	14.5×31.5	0.61
	100	12.5×50	0.73
	100	14.5×35	0.70
	100	16×31.5	0.71
	120	14.5×40	0.79
	120	16×35	0.80
	150	14.5×50	0.94
	150	16×40	0.92
	150	18×31.5	0.89
	180	16×50	1.08
	180	18×40	1.06
220	18×45	1.20	
420	33	10×30	0.32
	39	10×35	0.36
	47	10×40	0.41
	56	10×50	0.49
	56	12.5×30	0.46
	68	12.5×35	0.53
	82	12.5×45	0.63
	82	14.5×31.5	0.60
	100	12.5×50	0.71
	100	14.5×40	0.72
	100	16×31.5	0.69
	120	14.5×45	0.81
	120	16×35	0.78
	120	18×31.5	0.80
	150	16×45	0.94
	150	18×35	0.92
	180	16×50	1.05
	180	18×40	1.04
220	18×50	1.22	

Rated Voltage (V.DC)	Capacitance (μF)	Size $\phi D \times L$ (mm)	Rated Ripple Current (A r.m.s.105°C,120Hz)
450	27	10×30	0.30
	33	10×35	0.34
	39	10×40	0.39
	47	10×45	0.44
	47	12.5×30	0.43
	56	12.5×35	0.49
	68	12.5×40	0.56
	68	14.5×31.5	0.56
	82	12.5×45	0.63
	82	14.5×35	0.63
	82	16×31.5	0.64
	100	14.5×40	0.72
	100	16×35	0.73
	120	14.5×50	0.85
	120	16×40	0.82
	120	18×31.5	0.80
	150	16×50	0.98
	150	18×40	0.97
180	18×45	1.09	
220	18×50	1.22	