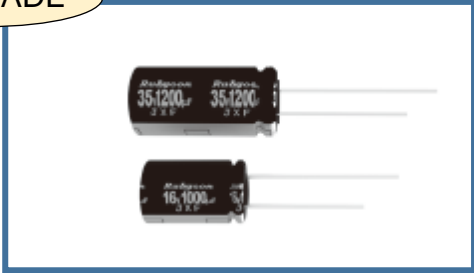


Rubycon RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS **JXF**

JXF SERIES

UPGRADE



◆ FEATURES

- Low Impedance, Wide Temperature Range
- Life:6000~8000Hours at 105°C
- AEC-Q200, RoHS Compliant

◆ SPECIFICATIONS

Item	Characteristics																		
Temperature Range	-55~+105°C																		
Rated Voltage Range	16~100Vdc																		
Capacitance Tolerance	±20% (20°C, 120Hz)																		
Leakage Current (MAX)	$I=0.01CV$ after 2 minutes or $3\mu A$ (whichever is greater) $I=(\mu A)$ Leakage Current $C=(\mu F)$ Capacitance $V=(Vdc)$ Rated Voltage																		
Dissipation Factor (MAX)	<table border="1"> <thead> <tr> <th>(Vdc) Rated Voltage</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.09</td> <td>0.08</td> <td></td> </tr> </tbody> </table> When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.	(Vdc) Rated Voltage	16	25	35	50	63	80	100	(20°C, 120Hz)	tan δ	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
(Vdc) Rated Voltage	16	25	35	50	63	80	100	(20°C, 120Hz)											
tan δ	0.16	0.14	0.12	0.10	0.09	0.09	0.08												
Endurance (Life)	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. <table border="1"> <thead> <tr> <th>Capacitance Change</th> <th>Within ±30% of the initial value.</th> <th>Case Size</th> <th>(hrs) Life Time</th> </tr> </thead> <tbody> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> <td>φD ≤ 10</td> <td>6000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>φD ≥ 12.5</td> <td>8000</td> </tr> </tbody> </table>	Capacitance Change	Within ±30% of the initial value.	Case Size	(hrs) Life Time	Dissipation Factor	Not more than 300% of the specified value.	φD ≤ 10	6000	Leakage Current	Not more than the specified value.	φD ≥ 12.5	8000						
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <thead> <tr> <th>(Vdc) Rated Voltage</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-55°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </tbody> </table>	(Vdc) Rated Voltage	16	25	35	50	63	80	100	(120Hz)	Z(-55°C)/Z(20°C)	3	3	3	3	3	3	3	
(Vdc) Rated Voltage	16	25	35	50	63	80	100	(120Hz)											
Z(-55°C)/Z(20°C)	3	3	3	3	3	3	3												

◆ MULTIPLIER FOR RIPPLE CURRENT

f (Hz) Frequency		120	1k	10k	100k≤
Coefficient	82 ~ 270μF	0.50	0.73	0.92	1.00
	300 ~ 680μF	0.55	0.77	0.94	1.00
	820 ~ 1800μF	0.60	0.80	0.96	1.00
	2200 ~ 10000μF	0.70	0.85	0.98	1.00

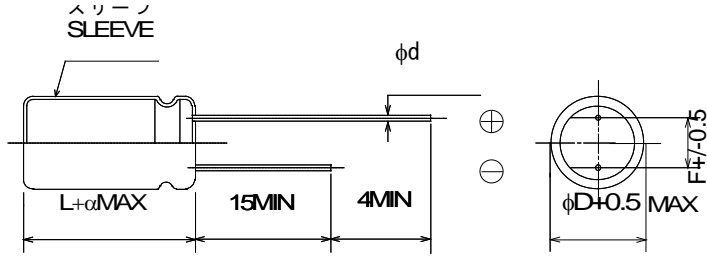
◆ PART NUMBER

□□□ / JXF / □□□ / M / EFC / □□ / φDxL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

*Specifications subject to change without notice.

Rubycon RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS **JXF**

◆ DIMENSIONS



φD	10	12.5	16	18
φd	0.6		0.8	
F	5		7.5	
α	2			

◆ Standard size

Rated Voltage (Vdc)	Capacitance (μF)	Size φDxL (mm)	Rated Ripple Current (mA r.m.s. /105°C,100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
16	1000	10×16	1180	0.061	0.122
	1500	10×20	1490	0.045	0.09
	1800	10×25	1710	0.037	0.074
	2200	12.5×20	1780	0.038	0.076
	3300	12.5×25	2170	0.030	0.06
	3900	12.5×30	2540	0.025	0.05
	3900	16×20	2210	0.028	0.056
	5600	16×25	2620	0.022	0.044
	5600	18×20	2490	0.028	0.056
	6800	16×30	3060	0.019	0.038
	8200	18×25	2790	0.020	0.04
10000	18×30	3240	0.018	0.036	
25	680	10×16	1180	0.061	0.122
	1000	10×20	1490	0.045	0.09
	1200	10×25	1710	0.037	0.074
	1500	12.5×20	1780	0.038	0.076
	2200	12.5×25	2170	0.030	0.06
	2700	12.5×30	2540	0.025	0.05
	2700	16×20	2210	0.028	0.056
	3300	18×20	2490	0.028	0.056
	3900	16×25	2620	0.022	0.044
	4700	16×30	3060	0.019	0.038
	4700	18×25	2790	0.020	0.04
	5600	18×30	3240	0.018	0.036

Rated Voltage (Vdc)	Capacitance (μF)	Size φDxL (mm)	Rated Ripple Current (mA r.m.s. /105°C,100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
35	470	10×16	1180	0.061	0.122
	680	10×20	1490	0.045	0.09
	820	10×25	1710	0.037	0.074
	1000	12.5×20	1780	0.038	0.076
	1200	12.5×25	2170	0.030	0.06
	1800	12.5×30	2540	0.025	0.05
	1800	16×20	2210	0.028	0.056
	2200	16×25	2620	0.022	0.044
	2200	18×20	2490	0.028	0.056
	3300	16×30	3060	0.019	0.038
	3300	18×25	2790	0.020	0.04
3900	18×30	3240	0.018	0.036	
50	180	10×16	850	0.100	0.2
	270	10×20	1050	0.075	0.15
	330	10×25	1250	0.057	0.114
	390	12.5×20	1480	0.059	0.118
	560	12.5×25	1840	0.044	0.088
	680	12.5×30	2220	0.036	0.072
	820	16×20	1840	0.044	0.088
	1200	16×25	2240	0.032	0.064
	1200	18×20	2150	0.041	0.082
	1500	16×30	2700	0.026	0.052
	1500	18×25	2610	0.029	0.058
	2200	18×30	3000	0.024	0.048

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RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

JXF

◆ Standard size

Rated Voltage (Vdc)	Capacitance (μF)	Size φDxL (mm)	Rated Ripple Current (mA r.m.s. /105°C,100kHz)	Impedance (Ω MAX)		
				20°C, 100kHz	-10°C, 100kHz	
63	120	10 × 16	600	0.160	0.32	
	180	10 × 20	890	0.120	0.24	
	220	10 × 25	1050	0.090	0.18	
	330	12.5 × 20	1290	0.085	0.17	
	390	12.5 × 25	1720	0.066	0.132	
	470	12.5 × 30	2090	0.052	0.104	
	560	16 × 20	1770	0.059	0.118	
	820	16 × 25	2160	0.047	0.094	
	820	18 × 20	2290	0.055	0.11	
	1000	16 × 30	2670	0.037	0.074	
	1000	18 × 25	2590	0.040	0.08	
	1500	18 × 30	2950	0.032	0.064	
	NEW 80	100	10 × 16	550	0.330	0.81
		150	10 × 20	780	0.240	0.59
180		10 × 25	970	0.190	0.47	
180		12.5 × 20	1120	0.165	0.39	
270		12.5 × 25	1420	0.120	0.28	
390		12.5 × 30	1690	0.097	0.23	
390		16 × 20	1560	0.110	0.26	
470		18 × 20	1660	0.090	0.19	
560		16 × 25	1980	0.081	0.19	
680		16 × 30	2350	0.064	0.15	
680		18 × 25	2100	0.070	0.15	
820		18 × 30	2490	0.058	0.13	

Rated Voltage (Vdc)	Capacitance (μF)	Size φDxL (mm)	Rated Ripple Current (mA r.m.s. /105°C,100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
NEW 100	68	10 × 16	550	0.330	0.81
	100	10 × 20	780	0.240	0.59
	120	10 × 25	970	0.190	0.47
	120	12.5 × 20	1120	0.165	0.39
	180	12.5 × 25	1420	0.120	0.28
	220	12.5 × 30	1690	0.097	0.23
	270	16 × 20	1560	0.110	0.26
	330	16 × 25	1980	0.081	0.19
	330	18 × 20	1660	0.090	0.19
	470	16 × 30	2350	0.064	0.15
	470	18 × 25	2100	0.070	0.15
	560	18 × 30	2490	0.058	0.13

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