

**RXA SERIES**
**NEW**
**Load Life : 125°C 2000~3000 hours**

- High Ripple Current, Low ESR, High Reliability.
- Suitable for DC Link of low voltage inverter.
- AEC-Q200.

RoHS compliance


**◆SPECIFICATIONS**

Items	Characteristics																		
Category Temperature Range	-40~+125°C (150°C)																		
Rated Voltage Range	25~70Vdc																		
Capacitance Tolerance	±20% (20°C, 120Hz)																		
Leakage Current(MAX)	I=0.03CV or 4µA whichever is greater.(After 1 minute) I=Leakage Current(µA)      C=Capacitance(µF)      V=Rated Voltage(Vdc)																		
Dissipation Factor(MAX) (tanδ)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>25</td> <td>35</td> <td>50</td> <td>70</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td></td> </tr> </table> <p>When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>	Rated Voltage (Vdc)	25	35	50	70	(20°C, 120Hz)	tanδ	0.14	0.12	0.10	0.10							
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Endurance	<p>After applying rated voltage with rated ripple current for specified time at 125°C the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> <td rowspan="3"> <table border="1"> <tr> <td>Rated Voltage</td> <td>Life Time (hrs)</td> </tr> <tr> <td>25~50Vdc</td> <td>3000</td> </tr> <tr> <td>70Vdc</td> <td>2000</td> </tr> </table> </td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	<table border="1"> <tr> <td>Rated Voltage</td> <td>Life Time (hrs)</td> </tr> <tr> <td>25~50Vdc</td> <td>3000</td> </tr> <tr> <td>70Vdc</td> <td>2000</td> </tr> </table>	Rated Voltage	Life Time (hrs)	25~50Vdc	3000	70Vdc	2000	Dissipation Factor	Not more than 300% of the specified value.	Leakage Current	Not more than the specified value.					
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25~50Vdc	3000																		
70Vdc	2000																		
Dissipation Factor	Not more than 300% of the specified value.																		
Leakage Current	Not more than the specified value.																		
Over temperature proof	<p>After applying rated voltage for 500 hours at 150°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 300% of the specified value.	Leakage Current	Not more than the specified value.												
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>25</td> <td>35</td> <td>50</td> <td>70</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	Rated Voltage (Vdc)	25	35	50	70	(120Hz)	Z(-25°C)/Z(20°C)	2	2	2	2		Z(-40°C)/Z(20°C)	3	3	3	3	
Rated Voltage (Vdc)	25	35	50	70	(120Hz)														
Z(-25°C)/Z(20°C)	2	2	2	2															
Z(-40°C)/Z(20°C)	3	3	3	3															

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency (Hz)	120	1k	10k	100k≤
Coefficient	0.45	0.80	1.00	1.00

**◆OPTION**

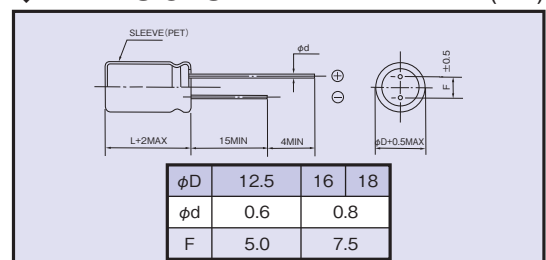
Standard item is blank.

**◆PART NUMBER**

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

**◆DIMENSIONS**

(mm)



**◆STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated ripple current I <sub>0</sub> (mA r.m.s./100kHz)		MAX ripple current I <sub>MAX</sub> (mA r.m.s./100kHz)	
			125°C	20°C	125°C	105°C
25	1300	12.5×20	1510	0.068	2390	3200
	1600	12.5×20	1470	0.072	2320	3120
	1800	12.5×25	1900	0.050	3010	4040
	2000	16×20	1820	0.049	2890	3880
	2200	12.5×25	1850	0.053	2930	3930
	2200	12.5×30	2190	0.043	3470	4660
	2700	12.5×30	2130	0.046	3370	4530
	2700	16×20	1800	0.051	2840	3810
	2700	16×25	2250	0.038	3570	4780
	2700	18×20	1990	0.046	3150	4230
	3300	18×20	1970	0.047	3120	4190
	3600	16×25	2220	0.039	3510	4710
	3600	16×30	2720	0.029	4300	5770
	3900	18×25	2510	0.033	3970	5330
	4700	16×30	2670	0.030	4220	5670
	4700	18×25	2490	0.034	3940	5290
	4700	18×30	2940	0.028	4650	6240
	5600	18×30	2910	0.028	4610	6190
35	910	12.5×20	1510	0.068	2390	3200
	1100	12.5×20	1470	0.072	2320	3120
	1200	12.5×25	1900	0.050	3010	4040
	1500	12.5×25	1850	0.053	2930	3930
	1500	12.5×30	2190	0.043	3470	4660
	1500	16×20	1820	0.049	2890	3880
	1800	12.5×30	2130	0.046	3370	4530
	1800	16×20	1800	0.051	2840	3810
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	2700	18×25	2510	0.033	3970	5330
	3000	16×30	2670	0.030	4220	5670
	3300	18×25	2490	0.034	3940	5290
	3300	18×30	2940	0.028	4650	6240
	3900	18×30	2910	0.028	4610	6190
50	510	12.5×20	1510	0.068	2390	3200
	620	12.5×20	1470	0.072	2320	3120
	680	12.5×25	1900	0.050	3010	4040
	820	12.5×25	1850	0.053	2930	3930
	820	12.5×30	2190	0.043	3470	4660
	820	16×20	1820	0.049	2890	3880
	1000	12.5×30	2130	0.046	3370	4530
	1000	16×20	1800	0.051	2840	3810
	1000	18×20	1990	0.046	3150	4230
	1100	16×25	2250	0.038	3570	4780
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	1800	18×25	2490	0.034	3940	5290
	1800	18×30	2940	0.028	4650	6240
	2200	18×30	2910	0.028	4610	6190
70	240	12.5×20	1270	0.096	2010	2690
	360	12.5×20	1230	0.100	1940	2610
	360	12.5×25	1600	0.070	2530	3400
	430	12.5×30	1850	0.061	2920	3920
	430	16×20	1560	0.067	2470	3320
	510	12.5×25	1550	0.075	2450	3290
	510	18×20	1730	0.061	2740	3680
	560	12.5×30	1790	0.065	2830	3800
	560	16×20	1530	0.070	2420	3250
	560	16×25	1930	0.051	3060	4100
	750	16×25	1890	0.053	2990	4020
	750	16×30	2330	0.040	3690	4960
	750	18×20	1710	0.063	2700	3630
	750	18×25	2190	0.044	3460	4640
	1000	16×30	2280	0.042	3610	4850
	1000	18×25	2160	0.045	3410	4580
	1000	18×30	2560	0.036	4050	5440
	1300	18×30	2530	0.037	4000	5370

Rated ripple current I<sub>0</sub> : Ripple current continuous operation within endurance lifetime.

Maximum ripple current I<sub>MAX</sub> : Maximum ripple current continuous operation. Estimated lifetime complies with our lifetime calculation formula.

