

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

Automotive only



◆SPECIFICATIONS

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

◆MULTIPLIER FOR RIPPLE CURRENT

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

◆OPTION

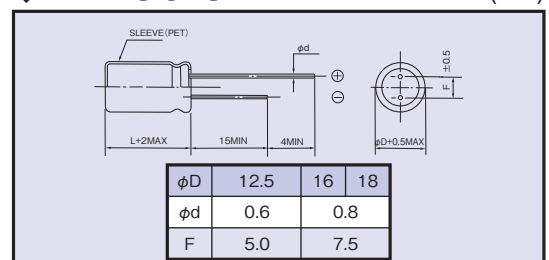
Standard item is blank.

◆PART NUMBER

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

◆DIMENSIONS

(mm)

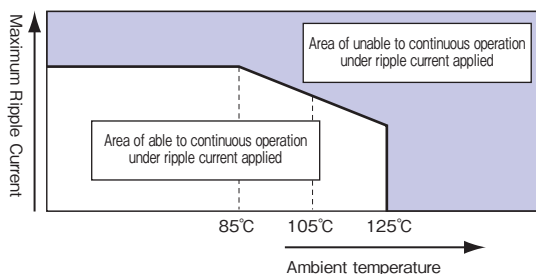


◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated ripple current I_o (mA r.m.s./100kHz)	ESR (Ωmax/100kHz)	MAX ripple current I_{MAX} (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
	1800	18×20	1990	0.046	3150	4230
	2000	16×25	2250	0.038	3570	4780
	2200	18×20	1970	0.047	3120	4190
	2400	16×25	2220	0.039	3510	4710
	2400	16×30	2720	0.029	4300	5770
	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
	1300	16×25	2220	0.039	3510	4710
	1300	18×20	1970	0.047	3120	4190
	1500	16×30	2720	0.029	4300	5770
	1500	18×25	2510	0.033	3970	5330
	1800	16×30	2670	0.030	4220	5670
	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_o : Ripple current continuous operation within endurance lifetime.

Maximum ripple current I_{MAX} : Maximum ripple current continuous operation. Estimated lifetime complies with our lifetime calculation formula.



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