RXW Series

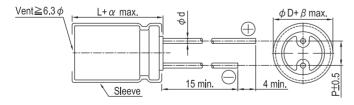
Features

- 105°C, 4,000 ~ 7,000 hours assured
- · Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- · RoHS compliance



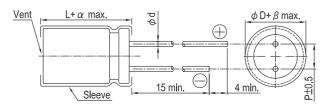
Specifications																
Items					Pe	rform	nance									
Category Temperature Range			6.3 ~ 63V						100V							
		-55°C ∼	55°C ~ +105°C					-40°C ~ +105°C								
Capacitance Tolerance	1 0 040)/ 0 / 4)	± 20 % (at 120 Hz, 20°C)														
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) Where, C = rated ca					/oltaç	ge in V									
Tanō (at 120 Hz, 20°C)	Rate	d Voltage	6.3	10	16		25	35		50	63	1	00			
Tallo (at 120 112, 20 C)	Tan	δ (max) When the	0.22	0.19 ce exceeds	0.16 1000u	F. 0.0	0.14 0.1 0.02 shall be add				0.09 OuF incre		80			
			npedance r								•					
Low Tomporature		Rated Voltage			6.3	10			25	35	50	63	100			
Low Temperature Characteristics (at 120 Hz)	Impedar Ratio				3	3	3		3	3	3	3	3			
Endurance		Le	Test Time Capacitance Change Tanō Leakage Current ations shall be satisfied when the conditions of the conditions at 105°C.				4,000 Hrs for ϕ D \leq 6.3 mm; 5,000 Hrs for ϕ D = 8 mm; 6,000 Hrs for ϕ D = 10 mm; 7,000 Hrs for ϕ D \geq 12.5 mm Within ±25% of initial value Less than 200% of specified value Within specified value e capacitors are restored to 20°C after the rated voltage approximately							d with rated		
			Test Time					1,000								
Obelf Life Test		Capa	acitance C	hange	1	Within ±25% of initial value										
Shelf Life Test		1	Tanō	wo n t		Less than 200% of specified value										
	Leakage Current Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.												hours at			
		Cap.(µF)	Fr	eq.(Hz)	120		1k		10)k	100k uj	0				
			≦ ~ 33		0.42		0.70		0.9	90	1.0					
Ripple Current and			39 ~ 270		0.5		0.73		0.9		1.0					
Frequency Multipliers			30 ~ 680		0.55		0.77		0.9		1.0					
		82	20 ~ 1,800		0.6		0.80		0.9	96	1.0					
			00 ~ 15,00	_	0.7		0.85			98	1.0					

Diagram of Dimensions



I	Lead Spacing and Diameter Unit: mn										
	ϕ D	5	6.3	8	10	12.5	16	18			
	Р	2.0	2.5	3.5	5.0	5.0	7.5	7.5			
	$\phi\mathrm{d}$	0.5 0.6 0.8									
	α L<20: 1.5, L≥20: 2.0										
	β				0.5						

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:





Dimension: ϕ D×L(mm) Impedance: Ω / at 100k Hz Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Dimension	and Permissible Rippie Current							Ripple Current: ma/rms at 105 C								
Rated Volt.	6.3V (0J) 10V (1A)						16V (1C)				25V (1E)					
(V _{DC}) Contents	φD×L		dance /100kHz)	Ripple Current	φD×L		dance /100kHz)	Ripple Current	φD×L			Ripple Current	φD×L	Impedance (Ω, max./100kHz)		Ripple Current
Cap. (µF)	Ψυνι	20°C	-10°C	(mA/rms,105°C) 100k Hz	ΨDNL	20°C	-10°C	(mA/rms, 105°C) 100k Hz	Ψυνι			(mA/rms, 105°C) 100k Hz	Ψυνι	20°C	-10°C	(mA/rms, 105°C) 100k Hz
		20 C	-10 C	TOURTIZ		20 C	-10 C	TOURTIZ		20 C	-10 C	TOURTIZ	F.,44			
4.7													5×11	0.6	1.2	180
10									5×11	0.6	1.2	180	5×11	0.6	1.2	180
22	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180
33	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180
39													5×11	0.6	1.2	180
47	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180	5×11	0.6	1.2	180
56	0.11	0.0	1.2	100	011	0.0	1.2	100	5×11	0.6	1.2	180	011	0.0		100
					F.:.44	0.0	4.0	400	3^11	0.0	1.2	100	0.044	0.05	0.50	200
82					5×11	0.6	1.2	180					6.3×11	0.25	0.50	290
100	5×11	0.6	1.2	180	5×11	0.6	1.2	180	6.3×11	0.25	0.5	290	6.3×11	0.25	0.50	290
120									6.3×11	0.25	0.5	290	6.3×15	0.23	0.46	430
150	6.3×11	0.25	0.5	290	6.3×11	0.25	0.5	290	6.3×11	0.25	0.5	290	8×11.5	0.117	0.234	555
180					6.3×11	0.25	0.5	290	6.3×15	0.23	0.46	430				
220	6.3×11	0.25	0.5	290	6.3×11 6.3×15	0.25 0.23	0.5 0.46	290 430	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555
330	6.3×11	0.25	0.50	290	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555	8×15	0.085	0.17	730
	6.3×15	0.23	0.46	430					8×15	0.085	0.17	730	10×12.5 8×20	0.090	0.18	755 995
470	8×11.5	0.117	0.234	555	8×11.5	0.117	0.234	555	10×12.5	0.000	0.17	755	10×16	0.068	0.136	1,050
560	8×11.5	0.117	0.234	555									10×20	0.052	0.104	1,220
680	10×12.5	0.090	0.180	755	8×15	0.085	0.170	730	8×20	0.065	0.130	995	10×20	0.052	0.104	1,220
000					10×12.5	0.090	0.180	755	10×16	0.068	0.136	1,050	10^20	0.032	0.104	1,220
820	8×15 10×12.5	0.085 0.090	0.170 0.180	730 755	0.00	0.005	0.100	005	10×20	0.052	0.104	1,220	10×25	0.045	0.090	1,440
1,000	10×12.5	0.090	0.180	755	8×20 10×16	0.065 0.068		995 1,050	10×20	0.052	0.104	1,220	10×30 12.5×20	0.035 0.038	0.070 0.076	1,815 1,655
1,200	8×20 10×16	0.065 0.068	0.130 0.136	955 1,050	10×20	0.052	0.104	1,220	10×25	0.045	0.090	1,440	12.0 20	0.000	0.070	1,000
1,500	10×20	0.052	0.104	1,220	10×20	0.052	0.104	1,220	12.5×20	0.038	0.076	1,655	12.5×25	0.030	0.060	1,945
1,000	1020	0.002	0.104	1,220	10×25	0.045	0.090	1,440	10×30	0.035	0.070	1,815	16×25	0.022	0.044	2,555
1,800													12.5×30 16×20	0.025 0.029	0.050 0.058	2,310 2,205
	40.05	0.045		4 4 4 4 0	10.00		0.070	4.045					12.5×35	0.023	0.030	2,510
2,200	10×25 12.5×20	0.045 0.038	0.090 0.076	1,440 1,615	10×30 12.5×20	0.035 0.038	0.070 0.076	1,815 1,655	12.5×25	0.030	0.06	1,945	16×25	0.022	0.044	2,555
	12.5^20	0.000	0.070	1,015	12.5^20	0.000	0.070	1,000	40 = 00			0.040	18×20	0.028	0.056	2,490
2,700	10×30	0.035	0.070	1,815	12.5×25	0.030	0.060	1,945	12.5×30 16×20	0.025 0.029	0.05 0.058	2,310 2,205	16×25	0.022	0.044	2,555
2 200	40.500	0.000	0.070	4.055	12.5×25	0.030	0.060	1,945	16×25	0.023	0.044	2,555	16×31.5	0.018	0.036	3,010
3,300	12.5×20	0.038	0.076	1,655	12.5×30	0.025	0.050	2,310	12.5×35	0.022	0.044	2,510	18×25	0.020	0.040	2,740
3,900	12.5×25	0.030	0.060	1,945	12.5×35	0.022	0.044	2,510	16×25	0.022	0.044	2,555	16×35.5	0.016	0.032	3,150
	12.5×30	0.025	0.050	2,310	16×20	0.029	0.058	2,205	18×20 16×31.5	0.028	0.056	2,490 3,010	18×31.5	0.016	0.032	3,635
4,700	16×25	0.022	0.044	2,555	16×25	0.022	0.044	2,555	18×25	0.020	0.040	2,740	18×35.5	0.015	0.030	3,680
5,600	12.5×35 16×20	0.022	0.044 0.058	2,510 2,205	16×25 18×20	0.022	0.044 0.056	2,555 2,490	16×35.5 18×31.5	0.016	0.032	3,150 3,635				
	16×25		0.036	2,555	16×31.5		0.036	3,010								
6,800	18×20		0.056	2,490	18×25	0.020	0.040	2,740	18×35.5	0.015	0.030	3,680	18×40	0.014	0.028	3,800
8,200	16×31.5	0.018	0.036	3,010	16×35.5 18×31.5		0.032 0.032	3,150 3,635	18×35.5	0.015	0.030	3,680				
10,000	16×31.5 18×25	0.016 0.020	0.032 0.040	3,150 2,740	18×35.5		0.030	3,680	18×40	0.014	0.028	3,800				
12,000	18×31.5	0.016		3,635												
15,000	18×35.5	0.015		3,680	18×40	0.014	0.028	3,800								
.0,000	.0 00.0	0.0.0	0.000	5,500	.0 10	0.017	0.020	5,500		l	l			1	l	

Lelon

Dimension: ϕ D×L(mm) Impedance: Ω / at 100k Hz Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Contents	19.6 13.2 9.2 7.0 3.6 3 1.66 0 1.60 3 1.36	2 100k Hz 6 44 2 58 74 95 130
Contents Φ D×L Contents Content (Ω, max/100kHz) (m, m/m stock) (Ω, max/100kHz) (m, m	ax./100kHz 2 -10°C 19.6 19.6 13.2 9.2 7.0 3.6 1.66 0 1.60 3 1.36	z) Current (mA/ms, 105° 2 100k Hz 44 44 95 1300 1300 1300 1300 1300 1300 1300 130
2.2	19.6 13.2 9.2 7.0 3.6 3 1.66 0 1.60 3 1.36	5 44 2 58 74 95 130 6 180 200
3.3	13.2 9.2 7.0 3.6 3 1.66 0 1.60 3 1.36	95 130 130 200
4.7 5×11 0.6 1.2 180 5×11 2.3 4.6 90 5×11 4.7 9.4 68 5×11 4.6 6.8 5×11 0.6 1.2 180 5×11 1.4 2.8 120 5×11 2.1 4.2 110 6.3×11 1.8 12 5×11 0.6 1.2 180 5×11 1.4 2.8 120 5×11 2.1 4.2 110 6.3×11 1.8 15 5×11 0.6 1.2 180 5×11 1.2 2.4 160 8×11.5 0.80 18 5×11 0.6 1.2 180 5×11 1.2 2.4 170 6.3×11 0.71 1.42 250 8×11.5 0.80 27 5×11 0.6 1.2 180 5×11 0.43 0.86 300 6.3×11 0.71 1.42 250 8×15.5 0.68 33 5×11 0.6	9.2 7.0 3.6 3 1.66 0 1.60 3 1.36	74 95 130 6 180 0 200
6.8	7.0 3.6 3 1.66 0 1.60 3 1.36	95 130 6 180 0 200
10	3.6 3 1.66 0 1.60 3 1.36 5 0.90	130 5 180 200
12	3 1.66 0 1.60 3 1.36 5 0.90	i 180 200
15	1.60 3 1.36 5 0.90	200
18	1.60 3 1.36 5 0.90	200
22	3 1.36 5 0.90	
27 5×11	5 0.90	230
33		
33		
47 6.3×11 0.25 0.5 290 6.3×11 0.43 0.86 300 8×11.5 0.342 0.684 405 10×16 8×20 0.37 56 6.3×11 0.25 0.5 290 6.3×15 0.40 0.80 360 <td< td=""><td></td><td></td></td<>		
100	7 0 74	400
68 82 6.3×15 0.23 0.46 430 8×11.5 0.234 0.468 485 10×12.5 0.236 0.512 535 10×25 0.234 100 8×11.5 0.117 0.234 555 8×11.5 0.234 0.468 485 10×12.5 0.256 0.512 535 12.5×20 0.18 120 8×15 0.155 0.310 635 10×16 0.194 0.388 600 150 8×11.5 0.117 0.234 555 10×12.5 0.162 0.324 615 10×16 0.194 0.388 600 150 8×11.5 0.117 0.234 555 10×12.5 0.162 0.324 615 10×16 0.194 0.388 600 180 8×20 0.120 0.240 860 10×20 0.147 0.294 885 12.5×30 0.12 180 8×15 0.085 0.17 730 10×16 0.190 0.147		
82 6.3×15 0.23 0.46 430 8×11.5 0.234 0.468 485 10×12.5 0.256 0.512 535 10×25 0.26 100 8×11.5 0.117 0.234 555 8×11.5 0.234 0.468 485 10×12.5 0.256 0.512 535 12.5×20 0.18 120 8×15 0.155 0.310 635 10×16 0.194 0.388 600 0.18 150 8×11.5 0.117 0.234 555 10×12.5 0.162 0.324 615 10×16 0.194 0.388 600 12.5×25 0.13 180 8×20 0.120 0.240 860 10×20 0.147 0.294 885 12.5×30 0.12 180 8×15 0.085 0.17 730 10×16 0.119 0.238 850 12.5×16 0.150 0.300 1,020 16×20 0.11 220 8×15 0.085 0.17		
100	_	
120	5 0.50	540
10×12.5	3 0.36	580
180 8×20 0.120 0.240 860 10×20 0.147 0.294 885 12.5×30 0.12 10×16 0.119 0.238 850 12.5×16 0.150 0.300 1,020 16×20 0.13 220 8×15 0.085 0.17 730 10×16 0.119 0.238 850 10×20 0.147 0.294 885 16×25 0.11 10×12.5 0.090 0.18 755 10×20 0.090 0.180 1,030 10×25 0.130 0.260 1,050 18×20 0.11 270 10×20 0.095 0.149 1,020 16×16 0.090 0.180 1,410	2 0.26	710
10×16 0.119 0.238 850 12.5×16 0.150 0.300 1,020 16×20 0.150 0.300 1,020 16×20 0.150 0.300 1,020 16×20 0.150 0.300 1,020 16×20 0.150 0.300 1,020 16×20 0.150 0.300 1,020 16×20 0.150 0.150 0.300 1,020 16×20 0.150 0.150 0.300 1,020 16×20 0.150 0.150 0.300 1,020 16×20 0.150 0.150 0.300 1,020 16×20 0.15		
270	0.26	750
270		
9×20 0.055 0.120 0.05 1.0×20 0.000 0.190 1.020	0.22	. 650
330 8×20 0.065 0.130 995 10×20 0.090 0.180 1,030 12.5×20 0.085 0.170 1,285 16×25 0.090 0.090 0.180 1,050 10×30 0.060 0.120 1,610 12.5×20 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.170 1,285 16×25 0.090 0.085 0.090 0.085 0.090 0.085 0.090 0.085 0.090 0.085 0.090 0.085 0.090	0 0.180	0 1,080
300 1020 0.052 0.104 1.220 12.520 0.063 0.126 1.480 12.525 0.070 0.140 1,720 1825 0.08	3 0.166	6 1,260
390 10×20 0.052 0.104 1,220 12.5×20 0.063 0.120 1,480 18×16 0.086 0.172 1,690 18×25 0.080 12.5×25 0.070 0.140 1,720	_	
470 10×20 0.052 0.104 1,220 12.5×20 0.060 0.120 1,500 12.5×30 0.055 0.110 2,090 16×31.5 0.07		
560 10×25 0.045 0.090 1,440 12.5×25 0.050 0.100 1,832 16×25 0.050 0.100 2,160 18×31.5 0.06		,
680		
820 12.5×35 0.034 0.068 2,285 16×31.5 0.043 0.086 2,670 18×40 0.04	7 0.094	4 1,520
1000 12 5×25 0 030 0 060 1 945 16×25 0 034 0 068 2 235 16×31.5 0.043 0.086 2,585		,,,,,,
1,000 12.5×20 0.050 0.050 1,500 10×25 0.050 0.050 2,700 16×35.5 0.036 0.072 2,770 1,200 12.5×30 0.025 0.050 2,310 16×31.5 0.028 0.056 2,700 18×31.5 0.032 0.064 2,950	+	
1,200 16×20 0.029 0.058 2,205 18×25 0.029 0.058 2,610 18×31.5 0.032 0.064 2,950		
1,500 12.5×35 0.022 0.044 2,510 16×31.5 0.028 0.056 2,700 18×35.5 0.030 0.060 3,095 0.050		
1,800 16×25 0.022 0.044 2,555 18×31.5 0.025 0.05 3,000		
2,200 16×31.5 0.018 0.036 3,010 18×35.5 0.023 0.046 3,100 18×40 0.028 0.056 3,200		
2,700 16×35.5 0.016 0.032 3,150 18×31.5 0.016 0.032 3,635		
3,300 18×35.5 0.015 0.030 3,680		
4,700 18×40 0.014 0.028 3,800		

Part Numbering System

Pb-free and PET **RXW Series** 470µF ±20% 6.3V **Bulk Package** Gas Type 8 φ ×11.5L sleeve **RXW** <u>471</u> M <u>0J</u> <u>BK</u> <u>0811</u> Capacitance Rated Rubber Lead Wire and Capacitance Series Name Case Size Tolerance Voltage and Package Sleeve type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.