

Aluminum Electrolytic Capacitors

YUSCON®

RX Series

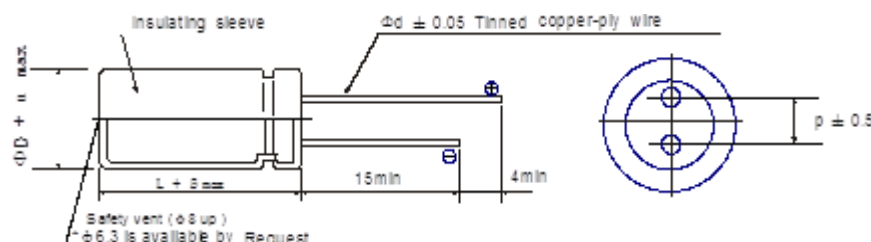
- Wide operating temperature range of - 40 ~ + 105°C
- Standard series for general-purpose
- Voltage range of 6.3 ~ 450V
- Load life of 1000 hours at 105°C
- Rohs compliance.



■ SPECIFICATIONS

Item	Characteristics										
Operating Temperature Range	- 40 ~ +105℃			- 40 ~ +105℃			- 25 ~ + 105℃				
Voltage Range	6.3 ~100 V.DC			160 ~350 V.DC			400 ~ 450 V.DC				
Nominal Cap. Range	0.1 ~ 15000 μF			0.47 ~ 470 μF			1 ~100 μF				
Capacitance Tolerance	- 20% ~ + 20% (at 20℃, 120Hz)										
Leakage Current	WV	6.3 V ~ 100 V						160 V ~ 450 V			
	L.C.	I =0.01CV or 3(μA) whichever is greater(after 2min)						I = 0.02CV + 15(μA) .(after 5 min.)			
		I =0.03CV or 4(μA) whichever is greater(after 1min)									
	where,I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20℃)										
Dissipation Factor (tanδ) (at 120Hz, +20℃)	W.V.	6.3	10	16	25	35	50	63	100	160~250	350~450
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20
Add 0.02 per 1,000 μF for more than 1,000μF items.											
Low Temp. Impedance Stability at 120Hz	W. V.	6.3	10	16	25~100		160~250		350~450		
	Z - 25℃ / Z + 20℃	4	3	2	2		3		8		
	Z - 40℃ / Z + 20℃	8	6	4	3		4		-		
High Temp. Load Test	After 1000 hours, application of DC rated working voltage at + 105℃, the capacitor shall meet the following limits. Capacitance change ... ≦±20% of the initial measured value Tan δ ... ≦ 200% of the initial specified value DC leakage current ...≦ the initial specified value										
High Temp. Non-Load Test	After storage for 500 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High temperature loading" can be met.										

● DRAWING



Unit: (mm)

φD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5			0.6		0.8	
β	1.0			1.5			
α	0.5						

▼ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(HZ)	60(50)	120	300	1K	10K
Cap(µF)					
0.1~ 47	0.75	1.00	1.35	1.55	2.00
68 ~ 680	0.80	1.00	1.25	1.34	1.50
1000 ~15000	0.85	1.00	1.10	1.13	1.15

◆ PART NUMBERING SYSTEM

RX	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

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STANDARD RATINGS

WV(Vdc) Param. Cap (μF)	6.3		10		16		25		35		50		63	
	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)
0.10											5X11	1	5X11	2
0.22											5X11	2	5X11	3
0.33											5X11	3	5X11	4
0.47											5X11	6	5X11	8
0.68											5X11	13	5X11	15
1.0											5X11	16	5X11	18
1.5											5X11	20	5X11	22
2.2											5X11	24	5X11	26
3.3											5X11	29	5X11	32
4.7											5X11	35	5X11	38
6.8											5X11	42	5X11	46
10									5X11	39	5X11	51	5X11	56
15									5X11	45	5X11	62	6.3X11	78
22							5X11	70	5X11	65	5X11	75	6.3X11	95
33							5X11	75	5X11	80	6.3X11	106	6.3X11	116
47					5X11	81	5X11	90	6.3X11	110	6.3X11	127	6.3X11	164
68			5X11	60	5X11	98	6.3X11	125	6.3X11	132	8X11.5	180	10X12.5	229
100	5X11	99	5X11	105	6.3X11	137	6.3X11	151	8X11.5	189	8X11.5	253	10X16	301
150	6.3X11	139	6.3X11	150	6.3X11	167	6.3X11	218	10X12.5	269	10X16	340	10X20	406
220	6.3X11	168	6.3X11	150	6.3X11	298	8X11.5	307	10X12.5	326	10X16	449	10X20	532
330	6.3X11	206	6.3X11	255	8X11.5	400	8X14	412	10X16	437	10X20	595	13X20	708
470	8X11.5	290	8X11.5	440	8X11.5	575	10X16	536	10X16	569	13X20	771	13X25	921
680	10X12.5	405	8X16	492	8X16	595	10X16	698	13X20	803	13X25	1,001	16X25	1,228
1,000	10X12.5	491	10X16	680	10X20	707	10X20	918	13X25	1,062	13X25	1,360	16X31.5	1,630
1,500	10X20	677	10X20	742	10X20	936	13X20	1,109	16X25	1,290	16X31.5	1,578	18X40	1,993
2,200	10X20	770	10X20	1,052	10X30	1,150	13X25	1,370	16X25	1,560	16X35.5	2,019		
3,300	13X20	1,067	13X20	1,548	13X35	1,468	16X25	1,794	16X35.5	1,992	18X35.5	2,250		
4,700	13X20	1,220	13X25	1,800	16X25	1,813	16X30	2,264	18X35.5	2,200				
6,800	13X25	1,450	16X25	2,010	16X35	2,184	18X35	2,350						
10,000	16X25	1,680	18X25	2,550										
15,000	18X35.5	2,396												

WV(Vdc) Param. Cap (μF)	100		160		200		250		350		400		450	
	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)	ΦDxL (mm)	Ripple current (mArms)
0.47	5X11	12	6.3X11	11	6.3X11	11	6.3X11	11						
0.68	5X11	15	6.3X11	13	6.3X11	13	6.3X11	13						
1.0	5X11	18	6.3X11	16	6.3X11	16	6.3X11	16	8X11.5	19	8X11.5	19	8X11.5	16
1.5	5X11	22	6.3X11	19	6.3X11	19	8X11.5	23	10X12.5	27	8X11.5	27	10X12.5	22
2.2	5X11	26	6.3X11	23	8X11.5	28	8X11.5	28	10X12.5	32	8X11.5	32	10X12.5	27
3.3	5X11	32	8X11.5	34	8X11.5	34	10X12.5	39	10X16	43	8X11.5	43	10X16	36
4.7	5X11	38	8X11.5	40	10X12.5	47	10X16	51	10X16	51	10X12.5	51	10X20	47
6.8	6.3X11	53	10X12.5	56	10X16	62	10X16	62	10X20	67	10X20	67	13X20	66
10	6.3X11	64	10X16	75	10X16	75	10X16	75	10X20	82	10X20	96	13X20	80
15	8X11.5	93	10X16	92	10X20	100	10X20	100	13X20	118	13X20	128	13X25	107
22	8X11.5	112	10X20	121	13X20	143	13X20	143	13X25	155	13X20	155	13X25	144
33	10X12.5	159	10X20	175	13X20	175	13X20	175	16X25	211	13X25	211	16X25	193
47	10X16	208	13X20	208	13X25	227	13X25	227	16X31.5	276	16X25	289	16X35.5	272
68	10X20	274	13X25	273	16X25	303	16X25	303	16X35.5	248	16X35.5	392	18X31.5	300
100	10X20	389	13X25	368	16X31.5	402	16X35.5	422	18X40	475	18X35.5	420		
150	13X25	520	16X25	492	16X35.5	543	18X40	582						
220	13X25	699	16X25	657	18X35.5	705								
330	16X25	856	18X35.5	863	22X40	790								
470	16X31.5	1,117	18X40	920										
680	18X40	1,588												
1000														
1500														
2200														
3300														
4700														
6800														
10000														
15000														

→ Rated Ripple Current (mArms) at 105°C 120Hz
→ Case Size: Φ D x L (mm)