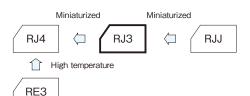
105°C Use, Standard Capacitors



• Guarantees 2000 hours at 105° C ($\phi 5\sim 8:1000$ hours).



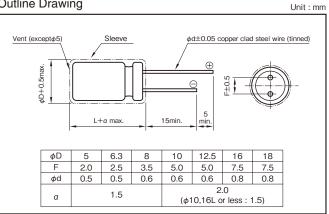


Marking color: White print on a black sleeve

Specifications

Item												Perfo	orm	nance								
Category temperature range (°C)					-55	to +	-105						T				-40	to +105				
Rated voltage (V)					6.3	to 1	00						Ť	160 to 450								
Tolerance at rated capacitance (%)		±20 (20°C,120Hz)															=	±20		(20°	C,120Hz)	
Leakage current (μA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) (20°C) C : Rated capacitance (µF) V : Rated voltage (V) CV≦1000 : Less than 0.1CV+40 (after 1 minute CV>1000 : Less than 0.04CV+100 (after 1 minute CV													,	(20°C)							
			I		_								Ť						1			
Tangent of loss angle	Rated voltage	ated voltage (V) 6.3		10	_	-	25	35	50	-	63	100		Rated voltage	,	160	200	250	315	350	400	
(tanδ)										0 0	0.09	0.08		tanδ (max.) 0.15 0.15			0.15	15 0.15 0.20 0.2			0.20	
	0.02 is added to every 1000μF increase over 1000μF (20°C,120Hz) (2													(20°	C,120Hz)							
	Rateo	l volta	ge (V)		6.3 10 16 2			25	35	50	63	100		Rated	volta	ge (V)		160 to 25	0	315 to	400	
Characteristics at high	Impedance			5	4	4 3 2		2	2	2	2		Impedance Z-2		5°C/Z+20)°C	3		3			
and low temperature	ratio (max.)	Z-5	5°C/Z+	-20°C	10	8	6	4	3	3 3 3 3			(max.) Z-40°C/Z+20°C)°C	8		6				
	•										(120Hz)							·		(120Hz)	
			Т	est tir	ne				Т					2000 hou	ırs (φ	5 to φ8 :	1000 hou	urs)				
Endurance (105°C)			Leak	age c	urrent	t								The initia	• • •							
(Applied ripple current)	F	ercen	tage of	capa	citano	e ch	nange							Within ±	 20% (of initial va	alue					
		Та	ingent o	of the	loss a	angle)							200% or	less c	of the initia	al specifie	ed value				
Shelf life (105℃)			Т	est tir	me : 1	000	hours	; other	item	s are	the s	ame as	the	ose for the en	nduran	ice. Volta	ge applica	ation treat	ment			
Applicable standards														60384-1 199								

Outline Drawing



Coefficient of Frequency for Rated Ripple Current

Rated voltage (V)	Frequency (Hz) Rated capacitance (µF)	50.60	120	1k	10k	100k
	0.1 to 4.7	_	0.4	0.7	0.8	1
	10 to 47	_	0.5	0.8	0.9	1
6.3 to 100	100 to 220	_	0.7	0.9	0.9	1
	330 to 1000	_	0.8	0.9	1.0	1
	2200 to 15000	_	0.9	1.0	1	1
160 to 400	0.47 to 220	0.8	1	1.3	1.4	1.6

Part numbering system (example : 63V1000µF)													
	RJ3	_	63	٧	102	М	J7	#					
S	Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	-					

Casing symbol

_	-		
Size	Casing	Size	Casing
ϕ D×L (mm)	Symbol	ϕ D×L (mm)	Symbol
5×11	E3	12.5×25	I6
6.3×11	F3	16×25	J6
8×11.5	G3	16×31.5	J7
10×12.5	Н3	16×35.5	J8
10×16	H4	18×35.5	K8
10×20	H5	18×40	K9
12.5×20	I5		



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS RJ3

Standard Ratings

Rated voltage (V)		6	.3				10			1	6			2	25	
Item	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current
Rated Capacitance (µF)	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms
4.7	_	_	_	_	_	_	_	_	_	_	_	_	5×11	49.4	3.0	85
10	_	_	_	_	_	_	_	_	5×11	26.5	2.5	92	5×11	23.2	2.5	92
22	_	_	_	_	5×11	14.3	2.5	92	5×11	12.1	1.9	105	5×11	10.6	1.9	105
33	5×11	11.1	2.5	105	5×11	9.55	1.9	105	5×11	8.04	1.5	120	5×11	7.04	1.5	120
47	5×11	7.77	1.5	120	5×11	6.71	1.5	120	5×11	5.65	1.2	130	5×11	4.94	1.2	130
100	5×11	3.65	1.2	130	5×11	3.15	1.2	130	6.3×11	2.65	0.58	220	6.3×11	2.32	0.58	220
220	6.3×11	1.66	0.87	180	6.3×11	1.43	0.58	220	8×11.5	1.21	0.47	290	8×11.5	1.06	0.39	315
330	6.3×11	1.11	0.58	220	8×11.5	0.96	0.47	265	8×11.5	0.81	0.39	315	10×12.5	0.70	0.23	500
470	8×11.5	0.78	0.39	315	8×11.5	0.67	0.39	315	10×12.5	0.57	0.23	500	10×16	0.50	0.18	615
1000	10×12.5	0.37	0.23	500	10×16	0.32	0.18	615	10×20	0.27	0.12	825	12.5×20	0.23	0.090	1050
2200	12.5×20	0.18	0.095	1000	12.5×20	0.16	0.090	1050	12.5×25	0.14	0.068	1300	16×25	0.12	0.056	1740
3300	12.5×20	0.13	0.090	1050	12.5×25	0.12	0.068	1300	16×25	0.10	0.056	1740	16×31.5	0.09	0.045	2110
4700	16×25	0.10	0.061	1670	16×25	0.09	0.056	1740	16×31.5	0.08	0.045	2110	18×35.5	0.07	0.036	2580
6800	16×25	0.08	0.056	1740	16×31.5	0.07	0.045	2110	18×35.5	0.06	0.036	2580	_	_	_	_
10000	16×31.5	0.06	0.045	2110	18×35.5	0.06	0.036	2580	_	_	_	_	_	_	_	_
15000	18×35.5	0.05	0.036	2580	_	_	_	_	_	_	_	_	_	_	_	_

Rated voltage (V)		3	35			į	50			6	:3			1	00	
Item	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current	Case	ESR	Impedance	Rated ripple current
Rated Capacitance (µF)	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms	φD×L (mm)	Ω	Ω	mArms
0.1	_	_	_	_	5×11	1659	18	10	_	_	_		_	_	_	_
0.22	_	_	_	_	5×11	754	13	15	_	_	_	_	_	_	_	_
0.33	_	_	_	_	5×11	503	10	18	_	_	_	_	_	_	_	_
0.47	_	_	_	_	5×11	353	7.0	23	_	_	_	_	5×11	282	13	30
1	_	_	_	_	5×11	166	4.9	35	_	_	_	_	5×11	133	11	45
2.2	_	_	_	_	5×11	75.4	4.2	53	_	_	_	_	5×11	60.3	9.2	60
3.3	_	_	_	_	5×11	50.3	3.9	65	_	_	_	_	5×11	40.2	7.2	67
4.7	5×11	42.4	2.5	92	5×11	35.3	3.6	82	5×11	31.8	5.8	74	5×11	28.2	6.3	75
10	5×11	19.9	1.9	105	5×11	16.6	2.7	100	5×11	14.9	3.6	95	6.3×11	13.3	3.3	110
22	5×11	9.05	1.5	120	5×11	7.54	1.9	125	6.3×11	6.79	2.1	130	8×11.5	6.03	1.4	165
33	5×11	6.03	1.2	130	6.3×11	5.03	1.1	195	6.3×11	4.52	1.7	160	10×12.5	4.02	0.94	305
47	6.3×11	4.24	0.58	220	6.3×11	3.53	0.90	245	8×11.5	3.18	1.2	305	10×16	2.82	0.68	320
100	8×11.5	1.99	0.39	315	8×11.5	1.66	0.50	385	10×12.5	1.49	0.65	395	12.5×20	1.33	0.28	585
220	10×12.5	0.91	0.23	500	10×16	0.75	0.27	505	10×20	0.68	0.32	505	16×25	0.60	0.16	1120
330	10×16	0.60	0.18	615	10×20	0.50	0.18	675	12.5×20	0.45	0.22	660	16×25	0.40	0.13	1290
470	10×20	0.42	0.12	825	12.5×20	0.35	0.12	895	12.5×25	0.32	0.16	850	16×31.5	0.28	0.11	1350
1000	12.5×25	0.20	0.068	1300	16×25	0.17	0.076	1495	16×31.5	0.15	0.098	1430	_	_	_	_
2200	16×31.5	0.11	0.045	2110	18×35.5	0.09	0.050	2190	-	_	_		_	_	_	_
3300	18×35.5	0.08	0.036	2580	_	_	_	_	_	_	_		_	_	_	_

(Note) ESR: 20°C, 120Hz; Impedance: 20°C, 100kHz; Rated ripple current: 105°C, 100kHz

Rated voltage (V) 160				200			250			315			350			400		
Item	Case	ESR	Rated ripple current															
Rated Capacitance (µF)	φD×L (mm)	Ω	mArms															
0.47	6.3×11	529	12	6.3×11	529	12	6.3×11	529	12	6.3×11	705	11	6.3×11	705	11	_	_	_
1	6.3×11	248	18	6.3×11	248	18	6.3×11	248	18	6.3×11	331	16	6.3×11	331	18	8×11.5	331	18
2.2	6.3×11	113	26	6.3×11	113	26	8×11.5	113	30	8×11.5	150	27	8×11.5	150	30	10×12.5	150	30
3.3	8×11.5	75.4	37	8×11.5	75.4	37	10×12.5	75.4	43	10×12.5	100	36	10×12.5	100	36	10×16	100	40
4.7	8×11.5	52.9	44	10×12.5	52.9	50	10×12.5	52.9	50	10×16	70.6	47	10×16	70.6	47	10×20	70.6	52
10	10×12.5	24.9	75	10×16	24.9	80	10×20	24.9	90	10×20	33.2	75	12.5×20	33.2	79	12.5×20	33.2	79
22	10×20	11.3	135	10×20	11.3	135	12.5×25	11.3	155	12.5×25	15.1	130	12.5×25	15.1	130	16×25	15.1	130
33	12.5×20	7.54	175	12.5×25	7.54	190	12.5×25	7.54	190	16×25	10.1	160	16×25	10.1	160	16×31.5	10.1	175
47	12.5×25	5.29	230	12.5×25	5.29	230	16×25	5.29	225	16×31.5	7.06	210	16×31.5	7.06	210	18×35.5	7.06	220
100	16×25	2.49	330	16×31.5	2.49	360	18×35.5	2.49	340	18×40	3.32	335	18×40	3.32	335	_	_	_
220	18×35.5	1.13	500	18×40	1.13	525	_	_	_	_	_	_	_	_	_	_	_	_

(Note) ESR: 20°C, 120Hz; Rated ripple current: 105°C, 120Hz