

Miniature Aluminum Electrolytic Capacitors RJD series

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

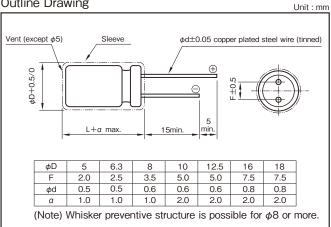
- · Low ESR capacitors.
- Guaranteed 8000 hours at 105℃. $(\phi 5 \text{ to } 6.3:2000 \text{ hours}; \phi 8: 3000 \text{ hours}; \phi 10: 5000 \text{ hours})$
- Environmental : GREEN CAP™, RoHS compliance.



Specifications

Item	Performance												
Category temperature range (°C)	-55 to +105												
Tolerance at rated capacitance (%)	±20 (20°C,120Hz												
Leakage current (μA) (max.)	0.01CV or 3 whichever is large	0.01CV or 3 whichever is larger (after 2 minutes) C: Rated capacitance (μF), V: Rated voltage (V) (20											
Tangent of loss angle	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100]		
(tanδ)	tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.08	0.08			
` ′	0.02 is added to every 1000μF increase over 1000μF. (20°C,120H												
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100]		
Characteristics at high	Impedance ratio (max.) Z-55°C/Z+20°C	3	3	3	3	3	3	3	3	3	1		
and low temperature										(120Hz)		
Endurance (105°C)	Test time	φ5 & 6.3 : 2000 hours φ8 : 3000 hours φ10 : 5000 hours φ12.5 or more : 8000 hours											
(Applied ripple current)	Leakage current	The initial specified value or less											
	Percentage of capacitance change	Within ±20% of initial value											
	Tangent of the loss angle 200% or less of the initial specified value]		
Shelf life (105°C)	Test time: 1000hours; other items are same	e as the e	endurance	. Voltage	application	n treatmen	t : Accordi	ng to JIS (C5101-4 4	.1			
Applicable standards		JIS C510	01 - 1,- 4	(IEC 6038	4 - 1,- 4)								

Outline Drawing



Coefficient of Frequency for Rated Ripple Current

Rated Frequency (Hz) Capacitance (µF)	50 • 60	120	300	1k	10k • 100k
56 or less	0.20	0.30	0.50	0.80	1
68 to 330	0.55	0.65	0.75	0.85	1
390 to 1000	0.70	0.75	0.80	0.90	1
1200 to 18000	0.80	0.85	0.90	0.95	1

Product code system : 25V10000μF (*For general product)													
RS*	RJD	103	М	1T	K40	300	Т						
Category code	Series code	capacitance code	Cap tol.	Voltage code	Size code	Lead-forming and packing code	Additional code						

- \cdot If it is whisker preventive structure, should change "T" into "G".
- For details, refer to the various "Product Code System" pages.
- · Lead-forming and packing code on this page are for lead long and standard packing products.

For standard packing, please refer to the "PACKING" page.



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Standard Ratings

Rated voltage(V)	i namigs				16 (1E)										
		6.	.3 (1J)		Rated ripple		11	0 (1L)		Rated ripple		11			Rated ripple
Rated capacitance	Case	Size code			current	Case	Size code		2 max.)	current	Case	Size code			current
(μF)	$\phi D \times L \text{ (mm)}$		20℃	-10°C	(mArms)	$\phi D \times L \text{ (mm)}$		20℃	-10℃	(mArms)	$\phi D \times L \text{ (mm)}$		20℃	-10°C	(mArms)
22		_	_	_	_	-	_	_	_		5 × 11.5	C11	0.50	1.0	182
33		_	_	_	_	_	_	_	_	_	5 × 11.5	C11	0.50	1.0	182
47		_	_	_	_	_	_	_	_	_	5 × 11.5	C11	0.50	1.0	182
82		_	_	_		_	_	_	_	_	5 × 11.5	C11	0.50	1.0	182
100	_	_	_	_	_	5 × 11.5	C11	0.50	1.0	182	6.3 × 11.5	D11	0.25	0.50	295
150	5 × 11.5	C11	0.50	1.0	182	_	_	_	_	_	6.3 × 11.5	D11	0.25	0.50	295
180	_	_	_	_	_	6.3 × 11.5	D11	0.25	0.50	295	8 × 12	E12	0.117	0.234	567
220	_	_	_	_	_	6.3 × 11.5	D11	0.25	0.50	295	8 × 12	E12	0.117	0.234	567
330	6.3 × 11.5	D11	0.25	0.50	295	8 × 12	E12	0.117	0.234	567	8 × 12	E12	0.117	0.234	567
390	_	_	_	_	_	-	_	_	_	-	8 × 12	E12	0.117	0.234	567
											8 × 15	E15	0.085	0.170	733
470	8 × 12	E12	0.117	0.234	567	8 × 12	E12	0.117	0.234	567	10 × 12.5	F12	0.090	0.180	764
560	8 × 12	E12	0.117	0.234	567	8 × 12	E12	0.117	0.234	567	8 × 20	E20	0.065	0.130	996
											8 × 15	E15	0.085	0.170	733
680	8 × 12	E12	0.117	0.234	567	_	_	_	-	_	10 × 12.5	F12	0.090	0.180	764
						8 × 15	E15	0.085	0.170	733	8 × 20	E20	0.065	0.130	996
820	_	_	_	_	_	10 × 12.5	F12	0.090	0.180	764	10 × 16	F16	0.068	0.136	1060
	045	545	0.005	0.470	700	8 × 20	E20	0.065	0.130	996					
1000	8 × 15	E15	0.085	0.170	733	10 × 12.5	F12	0.090	0.180	764	10 × 16	F16	0.068	0.136	1060
	10 × 12.5	F12	0.090	0.180	764	10 × 16	F16	0.068	0.136	1060	10 × 20	F20	0.052	0.104	1230
	10 × 12.5	F12	0.090	0.180	764	8 × 20	E20	0.065	0.130	996	10 × 20	F20	0.052	0.104	1230
1200	10 × 16	F16	0.068	0.136	1060	10 × 16	F16	0.068	0.136	1060	10 × 25	F25	0.045	0.090	1450
	8 × 20	E20	0.065	0.130	996	10 × 10	F20	0.052	0.104	1230	10 × 25	F25	0.045	0.090	1450
1500							G15						0.045		1830
	10 × 16	F16	0.068	0.136	1060	12.5 × 15	F20	0.062	0.124	1210	10 × 30	F30	0.035	0.070	1630
1800	12.5 × 15	G15	0.062	0.124	1210	10 × 20			0.104	1230	_	_	_	_	_
						10 × 25	F25	0.045	0.090	1450	4000	500	0.005	0.070	1000
	10 × 20	F20	0.052	0.104	1230	10 × 25	F25	0.045	0.090	1450	10 × 30	F30	0.035	0.070	1830
2200	10 × 25	F25	0.045	0.090	1450	12.5 × 20	G20	0.038	0.076	1700	12.5 × 20	G20	0.038	0.076	1700
	101120	1.20	0.010	0.000	1100						16 × 16	J16	0.043	0.086	1700
2700	10 × 25	F25	0.045	0.090	1450	10 × 30	F30	0.035	0.070	1830	12.5 × 25	G25	0.030	0.060	1950
						12.5 × 20	G20	0.038	0.076	1700	18 × 16	K16	0.038	0.076	2010
3300	10 × 30	F30	0.035	0.070	1830	12.5 × 25	G25	0.030	0.060	1950	12.5 × 30	G30	0.025	0.050	2330
	12.5 × 20	G20	0.038	0.076	1700						16 × 20	J20	0.029	0.058	2230
3900	12.5 × 25	G25	0.030	0.060	1950	12.5 × 25	G25	0.030	0.060	1950	12.5 × 35	G35	0.022	0.044	2620
						18 × 16	K16	0.038	0.076	2010	16 × 20	J20	0.029	0.058	2230
	12.5 × 25	G25	0.030	0.060	1950	12.5 × 30	G30	0.025	0.050	2330	12.5 × 40	G40	0.017	0.034	3160
4700	40 1/ 10	1440	0.000	0.070	0040	40 1/ 00	100	0.000	0.050	0000	16 × 25	J25	0.022	0.044	2650
	18 × 16	K16	0.038	0.076	2010	16 × 20	J20	0.029	0.058	2230	18 × 20	K20	0.028	0.056	2500
5600	12.5 × 30	G30	0.025	0.050	2330	12.5 × 35	G35	0.022	0.044	2620	16 × 25	J25	0.022	0.044	2650
	16 × 20	J20	0.029	0.058	2230	12.0 11 00	400	0.022	0.011		16 × 31.5	J31	0.018	0.036	3210
6800	12.5 × 35	G35	0.022	0.044	2620	12.5 × 40	G40	0.017	0.034	3160	18 × 25	K25	0.020	0.040	3000
0000	12.5 × 55	033	0.022	0.044	2020	16 × 25	J25	0.022	0.044	2650	16 ^ 25	NZ3	0.020	0.040	3000
	12.5 × 40	G40	0.017	0.034	3160	16 × 31.5	J31	0.018	0.036	3210					
8200	16 × 25	J25	0.022	0.044 2650	2650						18 × 35.5	K35	0.015	0.030	3960
	18 × 20	K20	0.028	0.056	2500	18 × 25	K25	0.020	0.040	3000					
105	16 × 31.5	J31	0.018	0.036	3210	16 × 40	J40	0.015	0.030	3880	40 :-		0.5	0.0	40.7.7
10000	18 × 25	K25	0.020	0.040	3000	18 × 35.5	K35	0.015	0.030	3960	18 × 40	K40	0.014	0.028	4300
12000	18 × 25	K25	0.020	0.040	3000	=	_	_	_	_	_	_	_	_	_
15000	18 × 35.5	K35	0.015	0.030	3960	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_
18000	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_	_	_	_	_	_
(NI-t-) D-t	d ripple current :	105°0 10	20111		20111										

(Note) Rated ripple current : $105^{\circ}\!C$, 100kHz ; ESR : 100kHz



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Standard Ratings

Item					50 (1U)												
Rated Item	Case	Size code	ESR (Ω	max.)	Rated ripple current	Case	Cino codo	ESR (C	max.)	Rated ripple current	Case	Ciao codo	ESR (C	max.)	Rated ripple current		
capacitance φ	bD×L (mm)		20℃	-10°C	(mArms)	$\phi D \times L (mm)$	Size code	20℃	-10°C	(mArms)	$\phi D \times L \text{ (mm)}$	Size code	20℃	-10°C	(mArms)		
10	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.90	1.8	173		
22	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.90	1.8	173		
27	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.90	1.8	173		
33	5 × 11.5	C11	0.50	1.0	182	5 × 11.5	C11	0.50	1.0	182	6.3 × 11.5	D11	0.40	0.80	285		
47	5 × 11.5	C11	0.50	1.0	182	6.3 × 11.5	D11	0.25	0.50	295	6.3 × 11.5	D11	0.40	0.80	285		
56	5 × 11.5	C11	0.50	1.0	182	6.3 × 11.5	D11	0.25	0.50	295	6.3 × 11.5	D11	0.40	0.80	285		
82	6.3 × 11.5	D11	0.25	0.50	295	6.3 × 11.5	D11	0.25	0.50	295	8 × 12	E12	0.19	0.38	508		
100	6.3 × 11.5	D11	0.25	0.50	295	8 × 12	E12	0.117	0.234	567	8 × 15	E15	0.155	0.31	636		
150	8 × 12	E12	0.117	0.234	567	8 × 12	E12	0.117	0.234	567	10 × 12.5	F12	0.17	0.34	628		
180	_	- 1	_	- 1	_	8 × 12	E12	0.117	0.234	567	10 × 12.5	F12	0.17	0.34	628		
220	8 × 12	E12	0.117	0.234	567	8 × 15	E15	0.085	0.170	733	10 × 16	F16	0.119	0.238	850		
270	8 × 12	E12	0.117	0.234	567	8 × 15	E15	0.085	0.170	733	10 × 20	F20	0.081	0.162	1120		
270	0 × 12	EIZ	0.117	0.234	567	10 × 12.5	F12	0.090	0.180	764	10 × 20	F20	0.061	0.162	1120		
000	8 × 12	E12	0.117	0.234	567	8 × 20	E20	0.065	0.130	996	10 × 20	F20	0.081	0.162	1120		
330	10 × 12.5	F12	0.090	0.180	764	10 × 16	F16	0.068	0.136	1060	12.5 × 15	G15	0.09	0.18	1170		
000	0 1/45	F45	0.005	0.470	700	8 × 20	E20	0.065	0.130	996							
390	8 × 15	E15	0.085	0.170	733	10 × 16	F16	0.068	0.136	1060	_	_	_	_	_		
470	8 × 15	E15	0.085	0.170	733	4000	500	0.050	0.404	4000	40.500	000	0.057		1510		
470	10 × 12.5	F12	0.090	0.180	764	10 × 20	F20	0.052	0.104	1230	12.5 × 20	G20	0.057	0.114	1540		
	8 × 20	E20	0.065	0.130	996	10 × 20	F20	0.052	0.104	1230							
560	10 × 16	F16	0.068	0.136	1060	12.5 × 15	G15	0.062	0.124	1210	12.5 × 25	G25	0.042	0.084	1910		
680	10 × 16	F16	0.068	0.136	1060	10 × 25	F25	0.045	0.090	1450	18 × 20	K20	0.034	0.068	2420		
	10 × 20	F20	0.052	0.104	1230						12.5 × 30	G30	0.038	0.076	2290		
820	12.5 × 15	G15	0.062	0.124	1210	12.5 × 20	G20	0.038	0.076	1700	18 × 20	K20	0.034	0.068	2420		
	10 × 25	F25	0.045	0.090	1450	10 × 30	F30	0.035	0.070	1830	16 × 25	J25	0.031	0.062	2450		
1000	12.5 × 20	G20	0.038	0.076	1700	12.5 × 20	G20	0.038	0.076	1700	18 × 20	K20	0.034	0.068	2420		
		000				0.070		12.5 × 25	G25	0.030	0.060	1950	40 × 05				
1200	12.5 × 20	G20	0.038	0.076	1700	18 × 16	K16	0.038	0.076	2010	18 × 25	K25	0.029	0.058	2750		
	10 × 30	F30	0.035	0.070	1830	12.5 × 30	G30	0.025	0.050	2330	16 × 31.5	J31	0.027	0.054	3100		
1500	16 × 16	J16	0.043	0.086	1700	16 × 20	J20	0.029	0.058	2230	18 × 25	K25	0.029	0.058	2750		
4000	12.5 × 25	G25	0.030	0.060	1950	12.5 × 35	G35	0.022	0.044	2620	16 × 35.5	J35	0.023	0.046	3530		
1800	18 × 16	K16	0.038	0.076	2010	16 × 20	J20	0.029	0.058	2230	18 × 31.5	K31	0.025	0.050	3200		
	12.5 × 30	G30	0.025	0.050	2330	12.5 × 40	G40	0.017	0.034	3160	16 × 40	J40	0.020	0.040	3830		
2200						16 × 25	J25	0.022	0.044	2650							
1	16 × 20	J20	0.029	0.058	2230	18 × 20	K20	0.028	0.056	2500	18 × 35.5	K35	0.022	0.044	3670		
0700	12.5 × 35	G35	0.022	0.044	2620	16 × 31.5	J31	0.018	0.036	3210	40 × 40	1/40	0.040	0.000	4400		
2700	18 × 25	K25	0.020	0.040	3000	18 × 25	K25	0.020	0.040	3000	18 × 40	K40	0.018	0.036	4160		
	12.5 × 40	G40	0.017	0.034	3160	18 × 25	K25	0.020	0.040	3000							
3300	16 × 25	J25	0.022	0.044	2650						_	_	_	_	_		
	18 × 20	K20	0.028	0.056	2500	18 × 31.5	K31	0.016	0.032	3660							
0000						18 × 35.5	K35	0.015	0.030	3960							
3900	-	-	-	-	_	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_		
4700	10 × 05	KOE		0.040	2000	18 × 35.5	K35	0.015	0.030	3960							
4700	18 × 25	K25	0.020	0.040	3000	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_		
5600	18 × 35.5	K35	0.015	0.030	3960	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_		
6800	18 × 35.5	K35	0.015	0.030	3960	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_		
8200	_	_	_	_	_	18 × 40	K40	0.014	0.028	4300	_	_	_	_	_		
10000	18 × 40	K40	0.014	0.028	4300	_	_			_	_	_			_		

Rated voltage(V)		63	3 (4E)				80		100 (1H)						
Rated Item	Case	Size code	ESH (11 max.)		Rated ripple current	Case	Case Size code		ESR (Ω max.) Rated rip curren		Case	Size code	ESR (Ω max.)		Rated ripple current
capacitance (µF)	$\phi D \times L (mm)$	Oize code	20℃	-10℃	(mArms)	$\phi D \times L (mm)$	Oize code	20℃	-10℃	(mArms)	$\phi D \times L (mm)$	Size code	20℃	-10℃	(mArms)
10	5 × 11.5	C11	2.5	10	135	5 × 11.5	C11	2.5	10	135	6.3 × 11.5	D11	1.70	6.8	186
22	6.3 × 11.5	D11	1.2	4.8	225	8 × 12	E12	0.60	1.8	380	8 × 12	E12	0.70	2.1	315
27	6.3 × 11.5	D11	1.2	4.8	225	_	_	-	_	-	_	_	-	_	-
33	6.3 × 11.5	D11	1.2	4.8	225	8 × 12	E12	0.60	1.8	380	8 × 15	E15	0.51	1.53	423
47	8 × 12	E12	0.60	1.8	380	8 × 15	E15	0.45	1.4	470	10 × 12.5	F12	0.54	1.08	392
56	8 × 12	E12	0.60	1.8	380	10 × 12.5	F12	0.47	0.94	480	10 × 16	F16	0.37	0.74	520
82	8 × 20	E20	0.30	0.90	682	10 × 16	F16	0.32	0.64	620	10 × 20	F20	0.29	0.58	640
100	10 × 16	F16	0.32	0.64	620	10 × 20	F20	0.25	0.50	800	10 × 25	F25	0.20	0.40	820
150	10 × 20	F20	0.25	0.50	800	12.5 × 20	G20	0.075	0.15	1340	12.5 × 25	G25	0.11	0.22	1200
180	10 × 25	F25	0.18	0.36	960	_	_	-	_	_	_	_	_	_	_
220	12.5 × 20	G20	0.075	0.15	1340	12.5 × 25	G25	0.065	0.13	1730	12.5 × 30	G30	0.090	0.18	1450
330	12.5 × 25	G25	0.065	0.13	1730	12.5 × 30	G30	0.055	0.11	2110	16 × 25	J25	0.079	0.16	1650
470	12.5 × 30	G30	0.055	0.11	2110	16 × 31.5	J31	0.042	0.084	2710	16 × 35.5	J35	0.052	0.104	2340
470	16 × 25	J25	0.052	0.104	2180	18 × 25	K25	0.050	0.10	2610	18 × 31.5	K31	0.054	0.108	2350
560	16 × 25	J25	0.052	0.104	2180	16 × 31.5	J31	0.042	0.084	2710	16 × 40	J40	0.045	0.090	2650
300	18 × 20	K20	0.058	0.116	2290	18 × 25	K25	0.050	0.10	2610	18 × 35.5	K35	0.044	0.088	2730
680	16 × 31.5	J31	0.042	0.084	2710	16 × 35.5	J35	0.036	0.072	2820	16 × 40	J40	0.045	0.090	2650
080	18 × 25	K25	0.050	0.10	2610	18 × 31.5	K31	0.042	0.084	3080	18 × 35.5	K35	0.044	0.088	2730
820	16 × 31.5	J31	0.042	0.084	2710	16 × 40	J40	0.032	0.064	3140	18 × 40	K40	0.039	0.078	3050
020	18 × 25	K25	0.050	0.10	2610	18 × 35.5	K35	0.035	0.070	3530	16 ^ 40	K40	0.039	0.076	3030
1000	16 × 35.5	J35	0.036	0.072	2820	18 × 40	K40	0.032	0.064	3880	_		_		_
1000	18 × 31.5	K31	0.042	0.084	3080	10 ^ 40	140	0.032	0.004	3000	_	_	_	_	_
1500	18 × 35.5	K35	0.035	0.070	3530	_	_	_	_	_	_	_	_	_	_
1800	18 × 40	K40	0.032	0.064	3880	_	_	_	_	_	_	_	_	_	_

(Note) Rated ripple current : 105°C , 100kHz ; ESR : 100kHz