

Standard Ratings

Cap.(μ F)	V(Code)	Item Code	6.3 (0J)			10 (1A)				
			Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms) 105°C / 100kHz	Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms) 105°C / 100kHz
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
22	220	220	5 \times 11	0.60	1.20	180	5 \times 11	0.60	1.20	180
			▲ 4 \times 7				2.00	5.00	65	
27	270	270	4 \times 7	2.00	5.00	65				
33	330	330	5 \times 11	0.60	1.20	180	5 \times 11	0.60	1.20	180
			▲ 5 \times 7	0.95	2.40	120	▲ 5 \times 7	0.95	2.40	120
39	390	390					5 \times 7	0.95	2.40	120
47	470	470	5 \times 11	0.60	1.20	180	5 \times 11	0.60	1.20	180
			▲ 5 \times 7	0.95	2.40	120	▲ 4 \times 11	1.30	2.60	120
56	560	560	5 \times 7	0.95	2.40	120				
68	680	680	4 \times 11	1.30	2.60	120				
82	820	820					5 \times 11	0.60	1.20	180
							▲ 6.3 \times 7	0.45	1.20	200
100	101	101	5 \times 11	0.60	1.20	180	5 \times 11	0.60	1.20	180
							▲ 5 \times 15	0.50	1.00	235
120	121	121	6.3 \times 7	0.45	1.20	200				
150	151	151	6.3 \times 11	0.25	0.50	290	6.3 \times 11	0.25	0.50	290
			▲ 5 \times 15	0.50	1.00	235				
180	181	181					6.3 \times 11	0.25	0.50	290
220	221	221	6.3 \times 11	0.25	0.50	290	6.3 \times 11	0.25	0.50	290
							▲ 6.3 \times 15	0.23	0.46	430
330	331	331	6.3 \times 11	0.25	0.50	290	8 \times 11.5	0.117	0.234	555
			▲ 6.3 \times 15	0.23	0.46	430				
470	471	471	8 \times 11.5	0.117	0.234	555	8 \times 11.5	0.117	0.234	555
560	561	561	8 \times 11.5	0.117	0.234	555				
680	681	681	10 \times 12.5	0.090	0.180	755	10 \times 12.5	0.090	0.180	760
			▲ 8 \times 15				0.085	0.170	730	
820	821	821	8 \times 15	0.085	0.170	730				
			▲ 10 \times 12.5	0.090	0.180	755				
1000	102	102	10 \times 12.5	0.090	0.180	755	10 \times 16	0.068	0.136	1050
							▲ 8 \times 20	0.065	0.130	995
1200	122	122	8 \times 20	0.065	0.130	995	10 \times 20	0.052	0.104	1220
			▲ 10 \times 16	0.068	0.136	1050				
1500	152	152	10 \times 20	0.052	0.104	1220	10 \times 20	0.052	0.104	1220
							▲ 10 \times 25	0.045	0.090	1440
2200	222	222	12.5 \times 20	0.038	0.076	1655	12.5 \times 20	0.038	0.076	1655
			▲ 10 \times 25	0.045	0.090	1440	▲ 10 \times 31.5	0.035	0.070	1815
2700	272	272	10 \times 31.5	0.035	0.070	1815	12.5 \times 25	0.030	0.060	1945
3300	332	332	12.5 \times 20	0.038	0.076	1655	12.5 \times 25	0.030	0.060	1950
							▲ 12.5 \times 31.5	0.025	0.050	2310
3900	392	392	12.5 \times 25	0.030	0.060	1945	12.5 \times 35.5	0.022	0.044	2510
							▲ 16 \times 20	0.029	0.058	2210
4700	472	472	16 \times 25	0.022	0.044	2555	16 \times 25	0.022	0.044	2555
			▲ 12.5 \times 31.5	0.025	0.050	2310				
5600	562	562	12.5 \times 35.5	0.022	0.044	2510	16 \times 25	0.022	0.044	2560
			▲ 16 \times 20	0.029	0.058	2210	▲ 18 \times 20	0.028	0.056	2490
6800	682	682	16 \times 25	0.022	0.044	2560	16 \times 31.5	0.018	0.036	3010
			▲ 18 \times 20	0.028	0.056	2490	▲ 18 \times 25	0.020	0.040	2740
8200	822	822	16 \times 31.5	0.018	0.036	3010	16 \times 35.5	0.016	0.032	3150
							▲ 18 \times 31.5	0.016	0.032	3635
10000	103	103	16 \times 31.5	0.016	0.032	3150	18 \times 35.5	0.015	0.030	3680
			▲ 18 \times 25	0.020	0.040	2740				
12000	123	123	18 \times 31.5	0.016	0.032	3635				
15000	153	153	18 \times 35.5	0.015	0.030	3680	18 \times 40	0.014	0.028	3800

▲ : In this case, [6] will be put at 12th digit of type numbering system.

Standard Ratings

Cap. (μF)	V(Code)	Item Code	16 (1C)				25 (1E)				
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz		
4.7	4R7										
10	100	5 × 11	0.60	1.20	180	5 × 11 ▲ 4 × 7	0.60 2.00	1.20 5.00	180 65		
15	150	4 × 7	2.00	5.00	65						
22	220	5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120	5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120		
27	270	5 × 7	0.95	2.40	120	4 × 11	1.30	2.60	120		
33	330	5 × 11 ▲ 6.3 × 7	0.60 0.45	1.20 1.20	180 200	5 × 11	0.60	1.20	180		
39	390	4 × 11	1.30	2.60	120	5 × 11 ▲ 6.3 × 7	0.60 0.45	1.20 1.20	180 200		
47	470	5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180		
56	560	5 × 11 ▲ 6.3 × 7	0.60 0.45	1.20 1.20	180 200	5 × 15	0.50	1.00	235		
82	820	5 × 15	0.50	1.00	235	6.3 × 11	0.25	0.50	290		
100	101	6.3 × 11	0.25	0.50	290	6.3 × 11	0.25	0.50	290		
120	121	6.3 × 11	0.25	0.50	290	6.3 × 15	0.23	0.46	430		
150	151	6.3 × 11	0.25	0.50	290	8 × 11.5	0.117	0.234	555		
180	181	6.3 × 15	0.23	0.46	430						
220	221	8 × 11.5	0.117	0.234	555	8 × 11.5	0.117	0.234	555		
330	331	8 × 11.5	0.117	0.234	555	10 × 12.5 ▲ 8 × 15	0.090 0.085	0.180 0.170	760 730		
470	471	10 × 12.5 ▲ 8 × 15	0.090 0.085	0.180 0.170	760 730	10 × 16 ▲ 8 × 20	0.068 0.065	0.136 0.130	1050 995		
560	561					10 × 20	0.052	0.104	1220		
680	681	10 × 16 ▲ 8 × 20	0.068 0.065	0.136 0.130	1050 995	10 × 20	0.052	0.104	1220		
820	821	10 × 20	0.052	0.104	1220	10 × 25	0.045	0.090	1440		
1000	102	10 × 20	0.052	0.104	1220	12.5 × 20 ▲ 10 × 31.5	0.038 0.035	0.076 0.070	1660 1815		
1200	122	10 × 25	0.045	0.090	1440						
1500	152	12.5 × 20 ▲ 10 × 31.5	0.038 0.035	0.076 0.070	1655 1815	16 × 25 ▲ 12.5 × 25	0.022 0.030	0.044 0.060	2555 1950		
1800	182					12.5 × 31.5 ▲ 16 × 20	0.025 0.029	0.050 0.058	2310 2210		
2200	222	12.5 × 25	0.030	0.060	1945	16 × 25 ▲ 18 × 20 ※ 12.5 × 35.5	0.022 0.028 0.022	0.044 0.056 0.044	2555 2490 2510		
2700	272	12.5 × 31.5 ▲ 16 × 20	0.025 0.029	0.050 0.058	2310 2210	16 × 25	0.022	0.044	2555		
3300	332	16 × 25 ▲ 12.5 × 35.5	0.022 0.022	0.044 0.044	2555 2510	16 × 31.5 ▲ 18 × 25	0.018 0.020	0.036 0.040	3010 2740		
3900	392	16 × 25 ▲ 18 × 20	0.022 0.028	0.044 0.056	2560 2490	16 × 35.5 ▲ 18 × 31.5	0.016 0.016	0.032 0.032	3150 3635		
4700	472	16 × 31.5 ▲ 18 × 25	0.018 0.020	0.036 0.040	3010 2740	18 × 35.5	0.015	0.030	3680		
5600	562	16 × 35.5 ▲ 18 × 31.5	0.016 0.016	0.032 0.032	3150 3635						
6800	682	18 × 35.5	0.015	0.030	3680	18 × 40	0.014	0.028	3800		
8200	822	18 × 35.5	0.015	0.030	3680						
10000	103	18 × 40	0.014	0.028	3800						

▲ : In this case, [6] will be put at 12th digit of type numbering system.
 ※ : In this case, [3] will be put at 12th digit of type numbering system.

Standard Ratings

Cap.(μ F)	V(Code)	Item Code	35 (1V)				50 (1H)			
			Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms) 105°C / 100kHz	Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms) 105°C / 100kHz
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
0.47	R47									
1	010					5 × 11	5.00	10.0		25
2.2	2R2					5 × 11	3.50	7.00		40
3.3	3R3					5 × 11	3.00	6.00		55
4.7	4R7		5 × 11	0.60	1.20	180	5 × 11	2.30	4.60	90
6.8	6R8		4 × 7	2.00	5.00	65				
10	100		5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120	5 × 11 ▲ 4 × 11	1.40 2.50	2.80 5.00	120 90
12	120		5 × 7	0.95	2.40	120				
18	180		4 × 11	1.30	2.60	120	5 × 11	1.30	2.60	155
22	220		5 × 11	0.60	1.20	180	5 × 11	1.20	2.40	170
27	270		5 × 11 ▲ 6.3 × 7	0.60 0.45	1.20 1.20	180 200	5 × 15	0.90	1.80	215
33	330		5 × 11	0.60	1.20	180	6.3 × 11	0.43	0.86	300
39	390		5 × 15	0.50	1.00	235				
47	470		6.3 × 11	0.25	0.50	290	6.3 × 11	0.43	0.86	300
56	560		6.3 × 11	0.25	0.50	290	6.3 × 15	0.40	0.80	360
82	820		6.3 × 15	0.23	0.46	430	8 × 11.5	0.234	0.468	485
100	101		8 × 11.5	0.117	0.234	555	8 × 11.5	0.234	0.468	485
120	121						8 × 15 ▲ 10 × 12.5	0.155 0.162	0.310 0.324	635 620
150	151		8 × 11.5	0.117	0.234	555	10 × 12.5	0.162	0.324	615
180	181						8 × 20 ▲ 10 × 16	0.120 0.119	0.240 0.238	860 850
220	221		10 × 12.5 ▲ 8 × 15	0.090 0.085	0.180 0.170	760 730	10 × 16 ▲ 10 × 20	0.119 0.090	0.238 0.180	850 1030
270	271						10 × 25	0.082	0.164	1200
330	331		10 × 16 ▲ 8 × 20	0.068 0.065	0.136 0.130	1050 995	10 × 20 ▲ 10 × 31.5	0.090 0.060	0.180 0.120	1030 1610
390	391		10 × 20	0.052	0.104	1220	12.5 × 20	0.063	0.126	1480
470	471		10 × 20	0.052	0.104	1220	12.5 × 20	0.060	0.120	1500
560	561		10 × 25	0.045	0.090	1440	12.5 × 25	0.050	0.100	1832
680	681		12.5 × 20 ▲ 10 × 31.5	0.038 0.035	0.076 0.070	1660 1815	12.5 × 25 ▲ 16 × 20	0.050 0.048	0.100 0.096	1840 1840
820	821						12.5 × 35.5 ▲ 18 × 20	0.034 0.042	0.068 0.084	2290 2420
1000	102		12.5 × 25	0.030	0.060	1950	16 × 25	0.034	0.068	2235
1200	122		12.5 × 31.5 ▲ 16 × 20	0.025 0.029	0.050 0.058	2310 2210	16 × 31.5 ▲ 18 × 25	0.028 0.029	0.056 0.058	2700 2610
1500	152		16 × 25 ▲ 12.5 × 35.5	0.022 0.022	0.044 0.044	2555 2510	16 × 31.5 ▲ 16 × 35.5	0.028 0.025	0.056 0.050	2700 2790
1800	182		16 × 25 ▲ 18 × 20	0.022 0.028	0.044 0.056	2555 2490	18 × 31.5	0.025	0.050	3000
2200	222		16 × 31.5 ▲ 18 × 25	0.018 0.020	0.036 0.040	3010 2740	18 × 35.5	0.023	0.046	3100
2700	272		16 × 35.5 ▲ 18 × 31.5	0.016 0.016	0.032 0.032	3150 3635				
3300	332		18 × 35.5	0.015	0.030	3680				
4700	472		18 × 40	0.014	0.028	3800				

▲ : In this case, [6] will be put at 12th digit of type numbering system.

ALUMINUM ELECTROLYTIC CAPACITORS

Standard Ratings

V(Code)		63 (1J)				100 (2A)							
Cap.(μF)	Code	Item	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz			
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz				
0.47	R47						5 × 11	43.0	86.0	20			
1	010						5 × 11	20.0	40.0	30			
2.2	2R2						5 × 11	9.80	19.6	44			
3.3	3R3						5 × 11	6.60	13.2	58			
4.7	4R7		5 × 11	4.70	9.40	68	5 × 11	4.60	9.20	74			
6.8	6R8		5 × 11	2.50	5.00	95	5 × 11	3.50	7.00	95			
		▲ 4 × 11	3.50	7.00	80								
10	100		5 × 11	2.10	4.20	110	6.3 × 11	1.80	3.60	130			
12	120		5 × 11	2.00	4.00	145							
15	150		6.3 × 11	1.20	2.40	160	8 × 11.5	0.83	1.66	180			
18	180		5 × 15	1.30	2.60	200	6.3 × 15	0.80	1.60	200			
22	220		6.3 × 11	0.71	1.42	250	8 × 11.5	0.68	1.36	230			
33	330		6.3 × 11	0.71	1.42	250	10 × 12.5	0.46	0.92	320			
		▲ 8 × 15	0.45	0.90	360								
39	390		6.3 × 15	0.70	1.40	330							
							10 × 16	0.37	0.74	420			
47	470		8 × 11.5	0.342	0.684	405	▲ 8 × 20	0.37	0.74	420			
68	680		8 × 11.5	0.342	0.684	405	10 × 20	0.30	0.60	490			
82	820						10 × 25	0.25	0.50	540			
100	101		10 × 12.5	0.256	0.512	540	12.5 × 20	0.18	0.36	580			
		▲ 8 × 15	0.230	0.460	535								
120	121		10 × 16	0.194	0.388	600							
150	151		10 × 16	0.194	0.388	660	12.5 × 25	0.13	0.26	710			
180	181		10 × 20	0.147	0.294	890	12.5 × 31.5	0.12	0.24	790			
		▲ 12.5 × 15	0.150	0.300	1020	▲ 16 × 20	0.13	0.26	750				
220	221		10 × 20	0.147	0.294	885	16 × 25	0.10	0.20	890			
		▲ 10 × 25	0.130	0.260	1050	▲ 18 × 20	0.11	0.22	850				
270	271		16 × 15	0.090	0.180	1410							
330	331		12.5 × 20	0.085	0.170	1290	16 × 25	0.090	0.18	1080			
390	391		12.5 × 25	0.070	0.140	1720	18 × 25	0.083	0.166	1260			
		▲ 18 × 15	0.086	0.172	1690								
470	471		12.5 × 25	0.070	0.140	1720	16 × 31.5	0.076	0.152	1310			
		▲ 12.5 × 31.5	0.055	0.110	2090								
560	561		* 16 × 20	0.059	0.118	1770							
680	681		16 × 25	0.050	0.100	2160	18 × 31.5	0.068	0.136	1370			
		▲ 12.5 × 35.5	0.047	0.094	2270	16 × 35.5					0.064	0.128	1410
		* 18 × 20	0.055	0.110	2290								
820	821		16 × 31.5	0.043	0.086	2670							
		▲ 18 × 25	0.043	0.086	2590								
1000	102		16 × 31.5	0.043	0.086	2770	18 × 40	0.047	0.094	1520			
		▲ 16 × 35.5	0.036	0.072	2770								
1200	122		18 × 31.5	0.032	0.064	2950							
1500	152		18 × 35.5	0.030	0.060	3100							
2200	222		18 × 40	0.028	0.056	3200							

▲ : In this case, [6] will be put at 12th digit of type numbering system.

* : In this case, [3] will be put at 12th digit of type numbering system.

V(Code)		160		200		250		315		350		400		450	
Cap. (μF)	Code	2C		2D		2E		2F		2V		2G		2W	
		0.47	R47	6.3 × 11	12	6.3 × 11	12	6.3 × 11	12	8 × 11.5	11	8 × 11.5	11		
1	010	6.3 × 11	17	6.3 × 11	17	6.3 × 11	17	8 × 11.5	16	10 × 12.5	17	10 × 12.5	16	10 × 12.5	18
2.2	2R2	6.3 × 11	25	6.3 × 11	25	8 × 11.5	29	10 × 12.5	28	10 × 16	31	10 × 16	27	10 × 20	29
3.3	3R3	8 × 11.5	36	8 × 11.5	36	10 × 12.5	42	10 × 12.5	34	10 × 16	38	10 × 20	36	12.5 × 20	41
4.7	4R7	8 × 11.5	43	10 × 12.5	50	10 × 12.5	50	10 × 16	45	10 × 20	49	10 × 20	43	12.5 × 20	49
10	100	10 × 12.5	70	10 × 16	80	10 × 20	88	10 × 20	72	12.5 × 20	82	12.5 × 25	72	16 × 25	75
22	220	10 × 20	130	10 × 20	140	12.5 × 25	155	12.5 × 25	120	16 × 25	130	16 × 25	110	16 × 31.5	115
		12.5 × 20	180	12.5 × 25	190	12.5 × 25	190	16 × 25	155	16 × 31.5	160	16 × 31.5	140	● 18 × 35.5	145
33	330	12.5 × 25	220	12.5 × 25	220	16 × 25	230	16 × 35.5	190	● 18 × 35.5	200	● 18 × 35.5	170	20 × 40	175
47	470	12.5 × 25	220	12.5 × 25	220	16 × 25	230	16 × 35.5	190	● 18 × 35.5	200	● 18 × 35.5	170	20 × 40	175
100	101	16 × 25	330	16 × 31.5	335	● 18 × 35.5	340	Δ 18 × 40	285	20 × 40	290	22 × 50	350	25 × 50	350
220	221	● 18 × 35.5	500	Δ 18 × 40	515	20 × 40	525	22 × 50	540	25 × 50	550				
330	331	20 × 40	900	22 × 40	1100	22 × 50	1150								
470	471	22 × 50	1200	22 × 50	1310	25 × 50	1350								

* Rated ripple current (mArms) at 105°C 120Hz

Size φ20 × 31 is available for capacitors marked "●"

Size φ20 × 35 is available for capacitors marked "Δ"

In this case, [6] will be put at 12th digit of type numbering system.