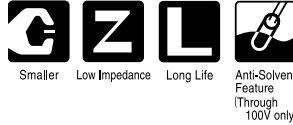
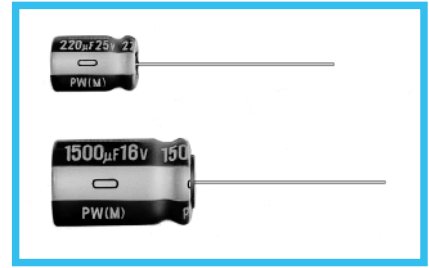
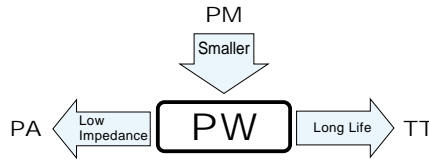


ALUMINUM ELECTROLYTIC CAPACITORS

PW series
Miniature Sized, Low Impedance,
High Reliability For Switching Power Supplies



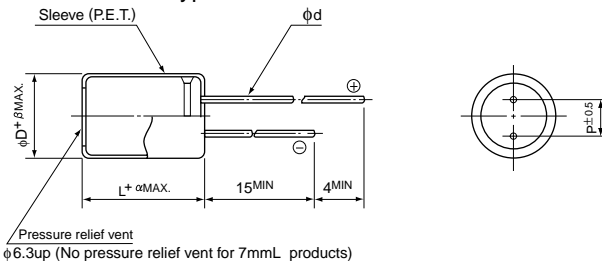
- Smaller case size and lower impedance than PM series.
- Low impedance and high reliability withstanding 2000 hours to 8000 hours.
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Compliant to the RoHS directive (2002/95/EC).



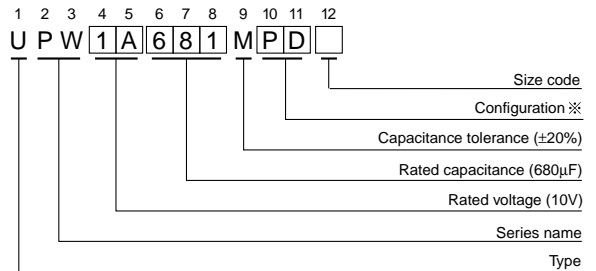
Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)											
Rated Voltage Range	6.3 to 450V											
Rated Capacitance Range	0.47 to 15000µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 to 100	160 to 450									
	Leakage current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.										
Tangent of loss angle (tan δ)	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.		Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	315 · 350	400 · 450
Stability at Low Temperature	Impedance ratio (MAX.)	Z-25°C / Z+20°C	—	—	—	—	3	3	4	6	15	
		Z-40°C / Z+20°C	—	—	—	—	4	6	8	10	—	
		Z-55°C / Z+20°C	3	3	3	3	—	—	—	—	—	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 8000 hours (2000 hours for φD=4, 5 and 6.3, 3000 hours for φD=8, 5000 hours for φD=10, 7000 hours for φD=12.5) at 105°C, the peak voltage shall not exceed the rated voltage.		Capacitance change	Within ±20% of the initial capacitance value								
			tan δ	200% or less than the initial specified value								
			Leakage current	Less than or equal to the initial specified value								
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.											
Marking	Printed with white color letter on dark brown sleeve.											

Radial Lead Type



Type numbering system (Example : 10V 680µF)



α	φD	(mm)											
		4	5	6.3	8	10	12.5	16	18	20	22	25	
(L = 7) 1.0	P	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5	
(L < 20) 1.5	φd	0.45	0.5	0.5 (0.45)	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0	
(L ≥ 20) 2.0	β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	

※: Applied to L>25 products
(): Applied to 7mmL products

※ Configuration	
φ D	Pb-free leadwire Pb-free PET sleeve
4 · 5	DD
6.3	ED (7mm L : DD)
8 · 10	PD
12.5 to 18	HD
20 to 25	RD

• Please refer to page 20 about the end seal configuration.

Frequency coefficient of rated ripple current

V	Cap. (µF)	Frequency				
		50Hz	120Hz	300Hz	1kHz	10kHz or more
6.3 to 100	0.47 to 56	0.20	0.30	0.50	0.80	1.00
	68 to 330	0.55	0.65	0.75	0.85	1.00
	390 to 1000	0.70	0.75	0.80	0.90	1.00
	1200 to 15000	0.80	0.85	0.90	0.95	1.00
160 to 450	0.47 to 220	0.80	1.00	1.25	1.40	1.60
	330 to 470	0.90	1.00	1.10	1.13	1.15

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

• Dimension table in next page.

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	5 \times 11	0.60	1.20	180	5 \times 11 ▲ 4 \times 7	0.60 2.00	1.20 5.00	180 65
27	270	4 \times 7	2.00	5.00	65				
33	330	5 \times 11 ▲ 5 \times 7	0.60 0.95	1.20 2.40	180 120	5 \times 11 ▲ 5 \times 7	0.60 0.95	1.20 2.40	180 120
39	390					5 \times 7	0.95	2.40	120
47	470	5 \times 11 ▲ 5 \times 7	0.60 0.95	1.20 2.40	180 120	5 \times 11 ▲ 4 \times 11	0.60 1.30	1.20 2.60	180 120
56	560	5 \times 7	0.95	2.40	120				
68	680	4 \times 11	1.30	2.60	120				
82	820					5 \times 11 ▲ 6.3 \times 7	0.60 0.45	1.20 1.20	180 200
100	101	5 \times 11	0.60	1.20	180	5 \times 11 ▲ 5 \times 15	0.60 0.50	1.20 1.00	180 235
120	121	6.3 \times 7	0.45	1.20	200				
150	151	6.3 \times 11 ▲ 5 \times 15	0.25 0.50	0.50 1.00	290 235	6.3 \times 11	0.25	0.50	290
180	181					6.3 \times 11	0.25	0.50	290
220	221	6.3 \times 11	0.25	0.50	290	6.3 \times 11 ▲ 6.3 \times 15	0.25 0.23	0.50 0.46	290 430
330	331	6.3 \times 11 ▲ 6.3 \times 15	0.25 0.23	0.50 0.46	290 430	8 \times 11.5	0.117	0.234	555
470	471	8 \times 11.5	0.117	0.234	555	8 \times 11.5	0.117	0.234	555
560	561	8 \times 11.5	0.117	0.234	555				
680	681	10 \times 12.5	0.090	0.180	755	10 \times 12.5 ▲ 8 \times 15	0.090 0.085	0.180 0.170	760 730
820	821	8 \times 15 ▲ 10 \times 12.5	0.085 0.090	0.170 0.180	730 755				
1000	102	10 \times 12.5	0.090	0.180	755	10 \times 16 ▲ 8 \times 20	0.068 0.065	0.136 0.130	1050 995
1200	122	8 \times 20 ▲ 10 \times 16	0.065 0.068	0.130 0.136	995 1050	10 \times 20	0.052	0.104	1220
1500	152	10 \times 20	0.052	0.104	1220	10 \times 20 ▲ 10 \times 25	0.052 0.045	0.104 0.090	1220 1440
2200	222	12.5 \times 20 ▲ 10 \times 25	0.038 0.045	0.076 0.090	1655 1440	12.5 \times 20 ▲ 10 \times 31.5	0.038 0.035	0.076 0.070	1655 1815
2700	272	10 \times 31.5	0.035	0.070	1815	12.5 \times 25	0.030	0.060	1945
3300	332	12.5 \times 20	0.038	0.076	1655	12.5 \times 25 ▲ 12.5 \times 31.5	0.030 0.025	0.060 0.050	1950 2310
3900	392	12.5 \times 25	0.030	0.060	1945	12.5 \times 35.5 ▲ 16 \times 20	0.022 0.029	0.044 0.058	2510 2210
4700	472	16 \times 25 ▲ 12.5 \times 31.5	0.022 0.025	0.044 0.050	2555 2310	16 \times 25	0.022	0.044	2555
5600	562	12.5 \times 35.5 ▲ 16 \times 20	0.022 0.029	0.044 0.058	2510 2210	16 \times 25 ▲ 18 \times 20	0.022 0.028	0.044 0.056	2560 2490
6800	682	16 \times 25 ▲ 18 \times 20	0.022 0.028	0.044 0.056	2560 2490	16 \times 31.5 ▲ 18 \times 25	0.018 0.020	0.036 0.040	3010 2740
8200	822	16 \times 31.5	0.018	0.036	3010	16 \times 35.5 ▲ 18 \times 31.5	0.016 0.016	0.032 0.032	3150 3635
10000	103	16 \times 31.5 ▲ 18 \times 25	0.016 0.020	0.032 0.040	3150 2740	18 \times 35.5	0.015	0.030	3680
12000	123	18 \times 31.5	0.016	0.032	3635				
15000	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	0.60	1.20	180	5 × 11	0.60	1.20	180	▲ 4 × 7	2.00	5.00	65		
15	150		4 × 7	2.00	5.00	65														
22	220		5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180	▲ 5 × 7	0.95	2.40	120						
27	270		5 × 7	0.95	2.40	120	4 × 11	1.30	2.60	120										
33	330		5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180	▲ 6.3 × 7	0.45	1.20	200						
39	390		4 × 11	1.30	2.60	120	5 × 11	0.60	1.20	180	▲ 6.3 × 7	0.45	1.20	200						
47	470		5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180										
56	560		5 × 11	0.60	1.20	180	5 × 15	0.50	1.00	235	▲ 6.3 × 7	0.45	1.20	200						
82	820		5 × 15	0.50	1.00	235	6.3 × 11	0.25	0.50	290	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	6.3 × 15	0.23	0.46	430						
120	121		6.3 × 11	0.25	0.50	290	6.3 × 15	0.23	0.46	430	8 × 11.5	0.117	0.234	555						
150	151		6.3 × 11	0.25	0.50	290	8 × 11.5	0.117	0.234	555	8 × 11.5	0.117	0.234	555						
180	181		6.3 × 15	0.23	0.46	430	8 × 11.5	0.117	0.234	555	10 × 12.5	0.090	0.180	760	▲ 8 × 15	0.085	0.170	730		
220	221		8 × 11.5	0.117	0.234	555	10 × 12.5	0.090	0.180	760	▲ 8 × 15	0.085	0.170	730	10 × 16	0.068	0.136	1050		
330	331		8 × 11.5	0.117	0.234	555	10 × 16	0.068	0.136	1050	▲ 8 × 20	0.065	0.130	995	10 × 20	0.052	0.104	1220		
470	471		10 × 12.5	0.090	0.180	760	▲ 8 × 20	0.065	0.130	995	10 × 20	0.052	0.104	1220	10 × 20	0.052	0.104	1220		
560	561		▲ 8 × 15	0.085	0.170	730	10 × 20	0.052	0.104	1220	10 × 25	0.045	0.090	1440	12.5 × 20	0.038	0.076	1660		
680	681		10 × 16	0.068	0.136	1050	10 × 25	0.045	0.090	1440	▲ 10 × 31.5	0.035	0.070	1815	▲ 10 × 31.5	0.035	0.070	1815		
820	821		▲ 8 × 20	0.065	0.130	995	10 × 25	0.045	0.090	1440	16 × 25	0.022	0.044	2555	▲ 12.5 × 25	0.030	0.060	1950		
1000	102		10 × 20	0.052	0.104	1220	16 × 25	0.022	0.044	2555	▲ 12.5 × 25	0.030	0.060	1950	12.5 × 31.5	0.025	0.050	2310		
1200	122		10 × 25	0.045	0.090	1440	▲ 12.5 × 25	0.030	0.060	1950	▲ 16 × 20	0.029	0.058	2210	▲ 16 × 20	0.029	0.058	2210		
1500	152		12.5 × 20	0.038	0.076	1655	16 × 25	0.022	0.044	2555	▲ 18 × 20	0.028	0.056	2490	16 × 25	0.022	0.044	2555		
1800	182		▲ 10 × 31.5	0.035	0.070	1815	▲ 18 × 20	0.028	0.056	2490	※ 12.5 × 35.5	0.022	0.044	2510	▲ 18 × 20	0.028	0.056	2490		
2200	222		12.5 × 25	0.030	0.060	1945	※ 12.5 × 35.5	0.022	0.044	2510	16 × 25	0.022	0.044	2555	▲ 18 × 20	0.028	0.056	2490		
2700	272		12.5 × 31.5	0.025	0.050	2310	16 × 25	0.022	0.044	2555	16 × 25	0.022	0.044	2555	16 × 25	0.022	0.044	2555		
3300	332		▲ 16 × 20	0.029	0.058	2210	16 × 25	0.022	0.044	2555	16 × 31.5	0.018	0.036	3010	▲ 18 × 25	0.020	0.040	2740		
3900	392		16 × 25	0.022	0.044	2560	16 × 31.5	0.018	0.036	3010	▲ 18 × 25	0.020	0.040	2740	16 × 35.5	0.016	0.032	3150		
4700	472		▲ 18 × 20	0.028	0.056	2490	▲ 18 × 20	0.028	0.056	2490	▲ 18 × 31.5	0.016	0.032	3635	▲ 18 × 31.5	0.016	0.032	3635		
5600	562		16 × 31.5	0.018	0.036	3010	18 × 35.5	0.015	0.030	3680										
6800	682		▲ 18 × 25	0.020	0.040	2740														
8200	822		16 × 35.5	0.016	0.032	3150														
10000	103		▲ 18 × 31.5	0.016	0.032	3635														
			18 × 35.5	0.015	0.030	3680														
			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 \times 11	5.00	10.0		25
2.2	2R2					5 \times 11	3.50	7.00		40
3.3	3R3					5 \times 11	3.00	6.00		55
4.7	4R7		5 \times 11	0.60	1.20	180	5 \times 11	2.30	4.60	90
6.8	6R8		4 \times 7	2.00	5.00	65				
10	100		5 \times 11 ▲ 5 \times 7	0.60 0.95	1.20 2.40	180 120	5 \times 11 ▲ 4 \times 11	1.40 2.50	2.80 5.00	120 90
12	120		5 \times 7	0.95	2.40	120				
18	180		4 \times 11	1.30	2.60	120	5 \times 11	1.30	2.60	155
22	220		5 \times 11	0.60	1.20	180	5 \times 11	1.20	2.40	170
27	270		5 \times 11 ▲ 6.3 \times 7	0.60 0.45	1.20 1.20	180 200	5 \times 15	0.90	1.80	215
33	330		5 \times 11	0.60	1.20	180	6.3 \times 11	0.43	0.86	300
39	390		5 \times 15	0.50	1.00	235				
47	470		6.3 \times 11	0.25	0.50	290	6.3 \times 11	0.43	0.86	300
56	560		6.3 \times 11	0.25	0.50	290	6.3 \times 15	0.40	0.80	360
82	820		6.3 \times 15	0.23	0.46	430	8 \times 11.5	0.234	0.468	485
100	101		8 \times 11.5	0.117	0.234	555	8 \times 11.5	0.234	0.468	485
120	121						8 \times 15 ▲ 10 \times 12.5	0.155 0.162	0.310 0.324	635 620
150	151		8 \times 11.5	0.117	0.234	555	10 \times 12.5	0.162	0.324	615
180	181						8 \times 20 ▲ 10 \times 16	0.120 0.119	0.240 0.238	860 850
220	221		10 \times 12.5 ▲ 8 \times 15	0.090 0.085	0.180 0.170	760 730	10 \times 16 ▲ 10 \times 20	0.119 0.090	0.238 0.180	850 1030
270	271						10 \times 25	0.082	0.164	1200
330	331		10 \times 16 ▲ 8 \times 20	0.068 0.065	0.136 0.130	1050 995	10 \times 20 ▲ 10 \times 31.5	0.090 0.060	0.180 0.120	1030 1610
390	391		10 \times 20	0.052	0.104	1220	12.5 \times 20	0.063	0.126	1480
470	471		10 \times 20	0.052	0.104	1220	12.5 \times 20	0.060	0.120	1500
560	561		10 \times 25	0.045	0.090	1440	12.5 \times 25	0.050	0.100	1832
680	681		12.5 \times 20 ▲ 10 \times 31.5	0.038 0.035	0.076 0.070	1660 1815	12.5 \times 25 ▲ 16 \times 20	0.050 0.048	0.100 0.096	1840 1840
820	821						12.5 \times 35.5 ▲ 18 \times 20	0.034 0.042	0.068 0.084	2290 2420
1000	102		12.5 \times 25	0.030	0.060	1950	16 \times 25	0.034	0.068	2235
1200	122		12.5 \times 31.5 ▲ 16 \times 20	0.025 0.029	0.050 0.058	2310 2210	16 \times 31.5 ▲ 18 \times 25	0.028 0.029	0.056 0.058	2700 2610
1500	152		16 \times 25 ▲ 12.5 \times 35.5	0.022 0.022	0.044 0.044	2555 2510	16 \times 31.5 ▲ 16 \times 35.5	0.028 0.025	0.056 0.050	2700 2790
1800	182		16 \times 25 ▲ 18 \times 20	0.022 0.028	0.044 0.056	2555 2490	18 \times 31.5	0.025	0.050	3000
2200	222		16 \times 31.5 ▲ 18 \times 25	0.018 0.020	0.036 0.040	3010 2740	18 \times 35.5	0.023	0.046	3100
2700	272		16 \times 35.5 ▲ 18 \times 31.5	0.016 0.016	0.032 0.032	3150 3635				
3300	332		18 \times 35.5	0.015	0.030	3680				
4700	472		18 \times 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	18 × 31.5	0.068	0.136	1370
680	681		16 × 25	0.050	0.100	2160	16 × 35.5	0.064	0.128	1410
		▲ 12.5 × 35.5	0.047	0.094	2270					
		* 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 × 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
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.