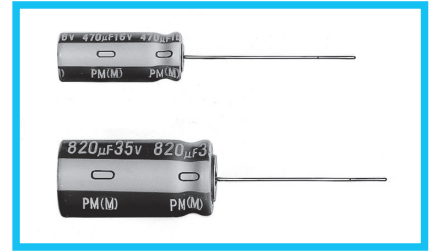
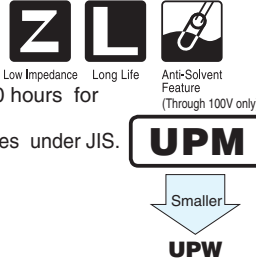


UPM

Low Impedance, High Reliability

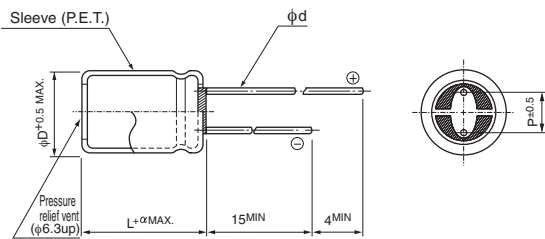


- High reliability withstanding 5000 hour load life at +105°C (3000/2000 hours for smaller case sizes as specified below).
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Compliant to the RoHS directive (2011/65/EU).

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	1 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 at 20°C, leakage current is not more than 0.03CV or 4 (µA), whichever is greater. CV ≤ 1000 : I = 0.1CV+40 (µA) max. CV > 1000 : I = 0.04CV+100 (µA) max.	
Tangent of loss angle (tan δ)	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency : 120Hz at 20°C		
	Rated Voltage (V)	6.3 10 16 25 35 50 63 to 100 160 to 350 400 · 450	
	tan δ (MAX.)	0.22 0.19 0.16 0.14 0.12 0.10 0.08 0.20 0.25	
Stability at Low Temperature	Rated voltage (V)	6.3 · 10 16 25 · 35 50 to 100 160 · 200 250 315 · 350 400 450	
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	— — — — — — — — — 15
		Z-40°C / Z+20°C	— — — — — 4 6 8 10 —
		Z-55°C / Z+20°C	4 3 3 2 — — — — — —
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 5000 hours (2000 hours for φD=5 and 6.3, 3000 hours for φD=8) 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	
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 characteristic requirements listed at right.		
	Capacitance change	Within ±20% of the initial capacitance value	
	tan δ	150% or less than the initial specified value	
Marking	Printed with white color letter on dark brown sleeve.		

Radial Lead Type



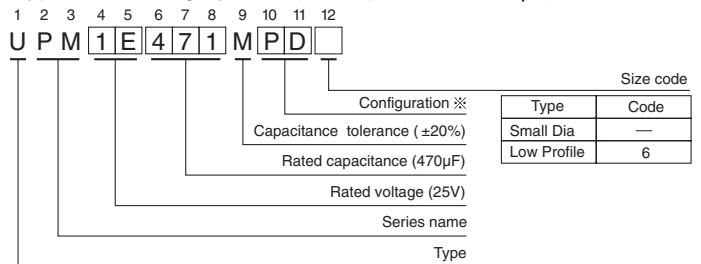
α	φD < 10	1.5
	φD ≥ 10	2.0

	(mm)						
φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6*	0.8	0.8

*In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

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

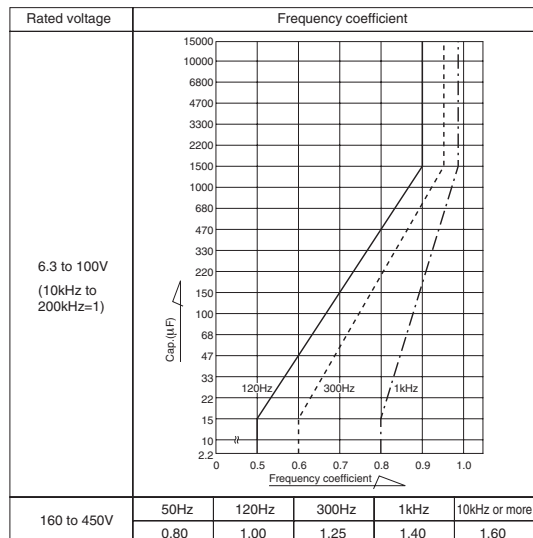
Type numbering system (Example : 25V 470µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD

Frequency coefficient of rated ripple current



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.



■ Dimensions

φD×L (mm)

Cap.(μF)	V(Code) Size code	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)	
		—	6	—	6	—	6	—	6	—	6
22	220										5 × 11
27	270										5 × 11
33	330										6.3 × 11
39	390								5 × 11		6.3 × 11
47	470						5 × 11		6.3 × 11		6.3 × 11
56	560						5 × 11		6.3 × 11		6.3 × 11
68	680				5 × 11		6.3 × 11		6.3 × 11		6.3 × 15
82	820				5 × 11		6.3 × 11		6.3 × 11		6.3 × 15
100	101	5 × 11			6.3 × 11		6.3 × 11		6.3 × 15		8 × 11.5
120	121	5 × 11			6.3 × 11		6.3 × 11		6.3 × 15		8 × 15
150	151	6.3 × 11			6.3 × 11		6.3 × 15		8 × 11.5		8 × 15
180	181	6.3 × 11			6.3 × 11		6.3 × 15		8 × 15	10 × 12.5	8 × 20
220	221	6.3 × 11			6.3 × 15		8 × 11.5		8 × 15	10 × 12.5	8 × 20
270	271	6.3 × 15			6.3 × 15		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20
330	331	6.3 × 15			8 × 11.5		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20
390	391	8 × 11.5			8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25
470	471	8 × 15	10 × 12.5		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5
560	561	8 × 15	10 × 12.5		8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25	12.5 × 15	12.5 × 20
680	681	8 × 20	10 × 16		8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25
820	821	8 × 20	10 × 16		10 × 20	12.5 × 15	10 × 25	12.5 × 15	12.5 × 20	16 × 15	12.5 × 25
1000	102	10 × 20	12.5 × 15		10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25	18 × 15	12.5 × 31.5
1200	122	10 × 20	12.5 × 15		10 × 25	12.5 × 15	12.5 × 20	16 × 15	12.5 × 25	18 × 15	12.5 × 35.5
1500	152	10 × 25	12.5 × 15		10 × 31.5	16 × 15	12.5 × 25	18 × 15	12.5 × 31.5	16 × 20	12.5 × 40
1800	182	10 × 31.5	16 × 15		12.5 × 20	16 × 15	12.5 × 31.5	16 × 20	12.5 × 35.5	16 × 25	16 × 31.5
2200	222	10 × 31.5	16 × 15		12.5 × 25	18 × 15	12.5 × 31.5	16 × 20	12.5 × 40	18 × 20	16 × 35.5
2700	272	12.5 × 25	18 × 15		12.5 × 31.5	16 × 20	12.5 × 35.5	16 × 25	16 × 31.5	18 × 25	16 × 40
3300	332	12.5 × 25	18 × 15		12.5 × 35.5	16 × 20	12.5 × 40	18 × 20	16 × 35.5	18 × 31.5	18 × 40
3900	392	12.5 × 31.5	16 × 20		12.5 × 40	18 × 20	16 × 31.5	18 × 25	16 × 40	18 × 35.5	
4700	472	12.5 × 35.5	18 × 20		16 × 31.5	18 × 25	16 × 35.5	18 × 31.5	18 × 40		
5600	562	12.5 × 40	18 × 20		16 × 35.5	18 × 25	16 × 40	18 × 35.5			
6800	682	16 × 31.5	18 × 25		16 × 35.5	18 × 31.5	18 × 35.5				
8200	822	16 × 35.5	18 × 31.5		16 × 40	18 × 35.5	18 × 40				
10000	103	16 × 40	18 × 31.5		18 × 40						
12000	123	18 × 35.5									
15000	153	18 × 40									

Cap.(μF)	V(Code) Size code	50 (1H)		63 (1J)		80 (1K)		100 (2A)	
		—	6	—	6	—	6	—	6
2.2	2R2	5 × 11						5 × 11	
3.3	3R3	5 × 11						5 × 11	
4.7	4R7	5 × 11						6.3 × 11	
6.8	6R8	5 × 11					5 × 11	6.3 × 11	
10	100	5 × 11			5 × 11		6.3 × 11	6.3 × 11	
12	120	5 × 11			5 × 11		6.3 × 11	6.3 × 11	
15	150	5 × 11			6.3 × 11		6.3 × 11	6.3 × 15	
18	180	5 × 11			6.3 × 11		6.3 × 11	6.3 × 15	
22	220	6.3 × 11			6.3 × 11		6.3 × 15	8 × 11.5	
27	270	6.3 × 11			6.3 × 11		6.3 × 15	8 × 15	10 × 12.5
33	330	6.3 × 11			6.3 × 15		8 × 11.5	8 × 15	10 × 12.5
39	390	6.3 × 11			6.3 × 15		8 × 15	10 × 12.5	8 × 20
47	470	6.3 × 15			8 × 11.5		8 × 15	10 × 12.5	10 × 20
56	560	6.3 × 15			8 × 15	10 × 12.5	8 × 20	10 × 16	12.5 × 15
68	680	8 × 11.5			8 × 15	10 × 12.5	10 × 20	12.5 × 15	10 × 25
82	820	8 × 15	10 × 12.5		8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5
100	101	8 × 20	10 × 16		10 × 20	12.5 × 15	10 × 25	12.5 × 15	10 × 31.5
120	121	8 × 20	10 × 16		10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25
150	151	10 × 20	12.5 × 15		10 × 25	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25
180	181	10 × 20	12.5 × 15		10 × 31.5	16 × 15	12.5 × 25	16 × 15	12.5 × 31.5
220	221	10 × 25	12.5 × 15		12.5 × 20	16 × 15	12.5 × 31.5	18 × 15	12.5 × 35.5
270	271	10 × 31.5	16 × 15		12.5 × 25	18 × 15	12.5 × 31.5	16 × 20	12.5 × 40
330	331	10 × 31.5	16 × 15		12.5 × 25	18 × 15	12.5 × 35.5	16 × 25	16 × 31.5
390	391	12.5 × 25	16 × 15		12.5 × 31.5	16 × 20	12.5 × 40	18 × 20	16 × 35.5
470	471	12.5 × 25	18 × 15		12.5 × 35.5	16 × 25	16 × 31.5	18 × 25	16 × 40
560	561	12.5 × 31.5	16 × 20		12.5 × 40	18 × 20	16 × 35.5	18 × 31.5	18 × 35.5
680	681	12.5 × 35.5	16 × 20		16 × 31.5	18 × 25	16 × 40	18 × 31.5	18 × 40
820	821	12.5 × 40	18 × 20		16 × 35.5	18 × 31.5	18 × 35.5		
1000	102	16 × 31.5	18 × 25		16 × 40	18 × 35.5	18 × 40		
1200	122	16 × 35.5	18 × 31.5		18 × 40				
1500	152	16 × 40	18 × 31.5						
1800	182	18 × 35.5							
2200	222	18 × 40							

In case of low profile type, ⑥ will be put at 12th digit of type numbering system.

Dimension table for 160 to 450V products are shown in 204 page.



Standard Ratings

V(Code)		6.3 (0J)										
Size code		—					6					
Cap.(μF)	Code	Item	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
				20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz
100	101	101	5 × 11	0.85	1.70	150	99					
120	121	121	5 × 11	0.65	1.30	175	115					
150	151	151	6.3 × 11	0.49	0.98	225	155					
180	181	181	6.3 × 11	0.39	0.78	250	175					
220	221	221	6.3 × 11	0.30	0.60	285	205					
270	271	271	6.3 × 15	0.24	0.48	370	275					
330	331	331	6.3 × 15	0.20	0.40	405	310					
390	391	391	8 × 11.5	0.17	0.34	445	345					
470	471	471	8 × 15	0.14	0.28	550	440	10 × 12.5	0.14	0.28	635	505
560	561	561	8 × 15	0.12	0.24	595	485	10 × 12.5	0.13	0.26	670	545
680	681	681	8 × 20	0.10	0.20	730	605	10 × 16	0.11	0.22	825	685
820	821	821	8 × 20	0.085	0.17	795	675	10 × 16	0.095	0.19	840	715
1000	102	102	10 × 20	0.075	0.15	950	820	12.5 × 15	0.085	0.17	890	770
1200	122	122	10 × 20	0.065	0.13	1060	930	12.5 × 15	0.075	0.15	950	835
1500	152	152	10 × 25	0.055	0.11	1260	1130	12.5 × 15	0.065	0.13	1020	915
1800	182	182	10 × 31.5	0.050	0.10	1370	1230	16 × 15	0.055	0.11	1270	1140
2200	222	222	10 × 31.5	0.043	0.086	1470	1320	16 × 15	0.049	0.098	1340	1200
2700	272	272	12.5 × 25	0.038	0.076	1700	1530	18 × 15	0.044	0.088	1500	1350
3300	332	332	12.5 × 25	0.034	0.068	1710	1530	18 × 15	0.039	0.078	1600	1440
3900	392	392	12.5 × 31.5	0.031	0.062	1980	1780	16 × 20	0.036	0.072	1770	1590
4700	472	472	12.5 × 35.5	0.028	0.056	2230	2000	18 × 20	0.032	0.064	1920	1720
5600	562	562	12.5 × 40	0.026	0.052	2460	2210	18 × 20	0.030	0.060	1980	1780
6800	682	682	16 × 31.5	0.024	0.048	2510	2250	18 × 25	0.027	0.054	2350	2110
8200	822	822	16 × 35.5	0.022	0.044	2770	2490	18 × 31.5	0.025	0.050	2600	2340
10000	103	103	16 × 40	0.020	0.040	3110	2790	18 × 31.5	0.023	0.046	2720	2440
12000	123	123	18 × 35.5	0.019	0.038	3050	2740					
15000	153	153	18 × 40	0.018	0.036	3300	2970					

V(Code)		10 (1A)										
Size code		—					6					
Cap.(μF)	Code	Item	Case size φD × L (mm)	Impedance (Ω)MAX.		Rated ripple (mArms)		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
				20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz
68	680	680	5 × 11	0.80	1.60	155	97					
82	820	820	5 × 11	0.65	1.30	175	110					
100	101	101	6.3 × 11	0.55	1.10	210	135					
120	121	121	6.3 × 11	0.44	0.88	235	160					
150	151	151	6.3 × 11	0.35	0.70	265	185					
180	181	181	6.3 × 11	0.29	0.58	290	205					
220	221	221	6.3 × 15	0.24	0.48	370	270					
270	271	271	6.3 × 15	0.20	0.40	405	300					
330	331	331	8 × 11.5	0.16	0.32	460	350					
390	391	391	8 × 15	0.14	0.28	550	430	10 × 12.5	0.15	0.30	635	490
470	471	471	8 × 15	0.12	0.24	595	475	10 × 12.5	0.13	0.26	670	535
560	561	561	8 × 20	0.10	0.20	730	595	10 × 16	0.11	0.22	700	570
680	681	681	8 × 20	0.085	0.17	795	660	10 × 16	0.090	0.18	825	685
820	821	821	10 × 20	0.070	0.14	985	835	12.5 × 15	0.080	0.16	920	780
1000	102	102	10 × 20	0.060	0.12	1060	915	12.5 × 15	0.065	0.13	1040	900
1200	122	122	10 × 25	0.050	0.10	1260	1120	12.5 × 15	0.060	0.12	1060	930
1500	152	152	10 × 31.5	0.045	0.090	1450	1300	16 × 15	0.050	0.10	1330	1190
1800	182	182	12.5 × 20	0.039	0.078	1470	1320	16 × 15	0.044	0.088	1420	1270
2200	222	222	12.5 × 25	0.034	0.068	1710	1530	18 × 15	0.039	0.078	1600	1440
2700	272	272	12.5 × 31.5	0.030	0.060	1980	1780	16 × 20	0.035	0.070	1740	1560
3300	332	332	12.5 × 35.5	0.026	0.052	2230	2000	16 × 20	0.031	0.062	1850	1660
3900	392	392	12.5 × 40	0.024	0.048	2460	2210	18 × 20	0.028	0.056	2050	1840
4700	472	472	16 × 31.5	0.023	0.046	2420	2170	18 × 25	0.026	0.052	2350	2110
5600	562	562	16 × 35.5	0.021	0.042	2610	2340	18 × 25	0.024	0.048	2440	2190
6800	682	682	16 × 35.5	0.020	0.040	2770	2490	18 × 31.5	0.022	0.044	2720	2440
8200	822	822	16 × 40	0.019	0.038	3110	2790	18 × 35.5	0.021	0.042	3050	2740
10000	103	103	18 × 40	0.017	0.034	3300	2970					

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



Standard Ratings

V(Code) Size Code Item Code Cap.(μF)		16 (1C)										
		—					6					
		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		
			20°C / 100kHz	-10°C / 100kHz	105°C / 100kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 100kHz to 200kHz	105°C / 120Hz	
47	470	5 × 11	0.80	1.60	155	92						
56	560	5 × 11	0.65	1.30	175	105						
68	680	6.3 × 11	0.50	1.00	220	135						
82	820	6.3 × 11	0.42	0.84	240	155						
100	101	6.3 × 11	0.35	0.70	265	175						
120	121	6.3 × 11	0.29	0.58	290	195						
150	151	6.3 × 15	0.23	0.46	375	260						
180	181	6.3 × 15	0.20	0.40	405	285						
220	221	8 × 11.5	0.16	0.32	460	335						
270	271	8 × 15	0.14	0.28	550	410	10 × 12.5	0.14	0.28	635	470	
330	331	8 × 15	0.12	0.24	595	455	10 × 12.5	0.12	0.24	670	510	
390	391	8 × 20	0.10	0.20	730	570	10 × 16	0.10	0.20	730	570	
470	471	8 × 20	0.090	0.18	770	615	10 × 16	0.090	0.18	825	660	
560	561	10 × 20	0.075	0.15	950	775	12.5 × 15	0.080	0.16	920	750	
680	681	10 × 20	0.065	0.13	1060	880	12.5 × 15	0.070	0.14	985	820	
820	821	10 × 25	0.055	0.11	1260	1070	12.5 × 15	0.060	0.12	1060	900	
1000	102	10 × 31.5	0.047	0.094	1410	1220	16 × 15	0.055	0.11	1270	1100	
1200	122	12.5 × 20	0.041	0.082	1430	1250	16 × 15	0.046	0.092	1390	1220	
1500	152	12.5 × 25	0.036	0.072	1700	1530	18 × 15	0.041	0.082	1560	1400	
1800	182	12.5 × 31.5	0.032	0.064	1880	1690	16 × 20	0.037	0.074	1700	1530	
2200	222	12.5 × 31.5	0.028	0.056	2010	1800	16 × 20	0.033	0.066	1800	1620	
2700	272	12.5 × 35.5	0.025	0.050	2230	2000	16 × 25	0.030	0.060	2190	1970	
3300	332	12.5 × 40	0.023	0.046	2460	2210	18 × 20	0.027	0.054	2090	1880	
3900	392	16 × 31.5	0.022	0.044	2510	2250	18 × 25	0.025	0.050	2350	2110	
4700	472	16 × 35.5	0.020	0.040	2770	2490	18 × 31.5	0.023	0.046	2720	2440	
5600	562	16 × 40	0.019	0.038	3110	2790	18 × 35.5	0.022	0.044	2620	2350	
6800	682	18 × 35.5	0.018	0.036	3050	2740						
8200	822	18 × 40	0.017	0.034	3300	2970						

V(Code) Size Code Item Code Cap.(μF)		25 (1E)										
		—					6					
		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		
			20°C / 100kHz	-10°C / 100kHz	105°C / 100kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 100kHz to 200kHz	105°C / 120Hz	
33	330	5 × 11	0.80	1.60	155	88						
39	390	5 × 11	0.65	1.30	175	100						
47	470	6.3 × 11	0.55	1.10	210	125						
56	560	6.3 × 11	0.44	0.88	235	140						
68	680	6.3 × 11	0.36	0.72	260	160						
82	820	6.3 × 11	0.30	0.60	285	180						
100	101	6.3 × 15	0.24	0.48	370	245						
120	121	6.3 × 15	0.20	0.40	405	275						
150	151	8 × 11.5	0.16	0.32	460	320						
180	181	8 × 15	0.14	0.28	550	390	10 × 12.5	0.15	0.30	635	450	
220	221	8 × 15	0.11	0.22	625	455	10 × 12.5	0.13	0.26	670	485	
270	271	8 × 20	0.095	0.19	750	560	10 × 16	0.11	0.22	700	525	
330	331	8 × 20	0.085	0.17	795	610	10 × 16	0.095	0.19	825	630	
390	391	10 × 20	0.070	0.14	985	770	12.5 × 15	0.080	0.16	920	720	
470	471	10 × 20	0.065	0.13	1060	845	12.5 × 15	0.070	0.14	985	785	
560	561	10 × 25	0.055	0.11	1260	1030	12.5 × 15	0.060	0.12	1060	860	
680	681	10 × 31.5	0.046	0.092	1420	1180	16 × 15	0.055	0.11	1270	1050	
820	821	12.5 × 20	0.041	0.082	1440	1220	16 × 15	0.049	0.098	1340	1140	
1000	102	12.5 × 25	0.036	0.072	1700	1470	18 × 15	0.043	0.086	1520	1310	
1200	122	12.5 × 25	0.032	0.064	1760	1550	18 × 15	0.039	0.078	1600	1400	
1500	152	12.5 × 31.5	0.029	0.058	1980	1780	16 × 20	0.034	0.068	1770	1590	
1800	182	12.5 × 35.5	0.026	0.052	2230	2000	16 × 25	0.031	0.062	2190	1970	
2200	222	12.5 × 40	0.024	0.048	2460	2210	18 × 20	0.028	0.056	2050	1840	
2700	272	16 × 31.5	0.022	0.044	2510	2250	18 × 25	0.025	0.050	2350	2110	
3300	332	16 × 35.5	0.020	0.040	2770	2490	18 × 31.5	0.023	0.046	2720	2440	
3900	392	16 × 40	0.019	0.038	3110	2790	18 × 35.5	0.021	0.042	3050	2740	
4700	472	18 × 40	0.018	0.036	3300	2970						

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



Standard Ratings

Cap. (μF)	V(Code)	Size code	Item	35 (1V)									
				—				6					
				Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz					
22	220		220	5 × 11	0.75	1.50	160	85					
27	270		270	5 × 11	0.60	1.20	180	99					
33	330		330	6.3 × 11	0.49	0.98	225	125					
39	390		390	6.3 × 11	0.41	0.82	245	140					
47	470		470	6.3 × 11	0.34	0.68	270	160					
56	560		560	6.3 × 11	0.28	0.56	295	180					
68	680		680	6.3 × 15	0.24	0.48	370	230					
82	820		820	6.3 × 15	0.19	0.38	415	265					
100	101		101	8 × 11.5	0.16	0.32	460	305					
120	121		121	8 × 15	0.14	0.28	550	370	10 × 12.5	0.15	0.30	635	425
150	151		151	8 × 15	0.12	0.24	595	415	10 × 12.5	0.12	0.24	680	475
180	181		181	8 × 20	0.10	0.20	730	520	10 × 16	0.11	0.22	700	500
220	221		221	8 × 20	0.085	0.17	795	580	10 × 16	0.090	0.18	825	600
270	271		271	10 × 20	0.070	0.14	985	735	12.5 × 15	0.080	0.16	920	690
330	331		331	10 × 20	0.060	0.12	1060	810	12.5 × 15	0.065	0.13	1020	780
390	391		391	10 × 25	0.055	0.11	1260	980	12.5 × 15	0.060	0.12	1060	825
470	471		471	10 × 31.5	0.046	0.092	1450	1160	16 × 15	0.055	0.11	1270	1010
560	561		561	12.5 × 20	0.041	0.082	1430	1170	16 × 15	0.048	0.096	1360	1110
680	681		681	12.5 × 25	0.036	0.072	1700	1410	18 × 15	0.042	0.084	1540	1280
820	821		821	12.5 × 25	0.032	0.064	1760	1490	18 × 15	0.038	0.076	1620	1380
1000	102		102	12.5 × 31.5	0.029	0.058	1980	1710	16 × 20	0.034	0.068	1770	1530
1200	122		122	12.5 × 35.5	0.026	0.052	2230	1960	16 × 25	0.031	0.062	2190	1920
1500	152		152	12.5 × 40	0.024	0.048	2460	2210	18 × 20	0.028	0.056	2050	1840
1800	182		182	16 × 31.5	0.022	0.044	2510	2250	18 × 25	0.025	0.050	2350	2110
2200	222		222	16 × 35.5	0.020	0.040	2770	2490	18 × 31.5	0.023	0.046	2720	2440
2700	272		272	16 × 40	0.018	0.036	3110	2790	18 × 35.5	0.021	0.042	3050	2740
3300	332		332	18 × 40	0.017	0.034	3300	2970					

Cap. (μF)	V(Code)	Size code	Item	50 (1H)									
				—				6					
				Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz					
2.2	2R2		2R2	5 × 11	5.00	10.0	54	27					
3.3	3R3		3R3	5 × 11	3.30	6.60	66	33					
4.7	4R7		4R7	5 × 11	2.20	4.40	81	40					
6.8	6R8		6R8	5 × 11	1.80	3.60	91	45					
10	100		100	5 × 11	1.40	2.80	115	57					
12	120		120	5 × 11	1.20	2.40	125	62					
15	150		150	5 × 11	0.93	1.86	145	72					
18	180		180	5 × 11	0.80	1.60	165	79					
22	220		220	6.3 × 11	0.65	1.30	195	100					
27	270		270	6.3 × 11	0.53	1.06	215	115					
33	330		330	6.3 × 11	0.43	0.86	240	135					
39	390		390	6.3 × 11	0.36	0.72	260	150					
47	470		470	6.3 × 15	0.30	0.60	330	195					
56	560		560	6.3 × 15	0.25	0.50	360	220					
68	680		680	8 × 11.5	0.20	0.40	415	260					
82	820		820	8 × 15	0.17	0.34	505	320	10 × 12.5	0.18	0.36	530	340
100	101		101	8 × 20	0.14	0.28	620	410	10 × 16	0.16	0.32	580	385
120	121		121	8 × 20	0.12	0.24	755	510	10 × 16	0.13	0.26	755	510
150	151		151	10 × 20	0.10	0.20	820	570	12.5 × 15	0.11	0.22	785	545
180	181		181	10 × 20	0.085	0.17	945	670	12.5 × 15	0.095	0.19	845	605
220	221		221	10 × 25	0.075	0.15	1150	840	12.5 × 15	0.080	0.16	920	670
270	271		271	10 × 31.5	0.065	0.13	1200	900	16 × 15	0.070	0.14	1120	840
330	331		331	10 × 31.5	0.055	0.11	1300	995	16 × 15	0.060	0.12	1210	925
390	391		391	12.5 × 25	0.048	0.096	1440	1120	16 × 15	0.055	0.11	1270	990
470	471		471	12.5 × 25	0.044	0.088	1500	1200	18 × 15	0.046	0.092	1470	1170
560	561		561	12.5 × 31.5	0.040	0.080	1720	1410	16 × 20	0.044	0.088	1550	1270
680	681		681	12.5 × 35.5	0.036	0.072	1900	1580	16 × 20	0.040	0.080	1630	1350
820	821		821	12.5 × 40	0.033	0.066	2120	1800	18 × 20	0.036	0.072	1810	1540
1000	102		102	16 × 31.5	0.030	0.060	2150	1860	18 × 25	0.033	0.066	2020	1750
1200	122		122	16 × 35.5	0.028	0.056	2320	2040	18 × 31.5	0.031	0.062	2140	1880
1500	152		152	16 × 40	0.026	0.052	2650	2380	18 × 31.5	0.029	0.058	2340	2100
1800	182		182	18 × 35.5	0.025	0.050	2620	2350					
2200	222		222	18 × 40	0.024	0.048	2790	2510					

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



Standard Ratings

Cap. (μF)	Code	Item	63 (1J)									
			Case size φ D × L (mm)	—				6				
				Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
				20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz
10	100	5 × 11	1.06	2.12	135	67						
12	120	5 × 11	0.93	1.86	145	72						
15	150	6.3 × 11	0.73	1.46	185	92						
18	180	6.3 × 11	0.63	1.26	195	100						
22	220	6.3 × 11	0.52	1.04	215	110						
27	270	6.3 × 11	0.43	0.86	240	130						
33	330	6.3 × 15	0.35	0.70	305	170						
39	390	6.3 × 15	0.30	0.60	330	190						
47	470	8 × 11.5	0.25	0.50	365	215						
56	560	8 × 15	0.21	0.42	450	275	10 × 12.5	0.23	0.46	450	275	
68	680	8 × 15	0.17	0.34	500	315	10 × 12.5	0.19	0.38	495	310	
82	820	8 × 20	0.15	0.30	600	385	10 × 16	0.16	0.32	580	375	
100	101	10 × 20	0.12	0.24	750	495	12.5 × 15	0.14	0.28	695	460	
120	121	10 × 20	0.10	0.20	820	555	12.5 × 15	0.12	0.24	750	510	
150	151	10 × 25	0.090	0.18	950	665	12.5 × 15	0.095	0.19	845	590	
180	181	10 × 31.5	0.075	0.15	1110	790	16 × 15	0.080	0.16	1050	750	
220	221	12.5 × 20	0.065	0.13	1140	835	16 × 15	0.070	0.14	1120	820	
270	271	12.5 × 25	0.055	0.11	1340	1000	18 × 15	0.060	0.12	1290	965	
330	331	12.5 × 25	0.049	0.098	1420	1090	18 × 15	0.050	0.10	1410	1080	
390	391	12.5 × 31.5	0.043	0.086	1620	1260	16 × 20	0.047	0.094	1500	1170	
470	471	12.5 × 35.5	0.039	0.078	1780	1420	16 × 25	0.042	0.084	1700	1360	
560	561	12.5 × 40	0.035	0.070	1950	1590	18 × 20	0.039	0.78	1730	1410	
680	681	16 × 31.5	0.032	0.064	2050	1700	18 × 25	0.035	0.070	1940	1610	
820	821	16 × 35.5	0.029	0.058	2220	1890	18 × 31.5	0.032	0.064	2110	1790	
1000	102	16 × 40	0.027	0.054	2370	2050	18 × 35.5	0.029	0.058	2280	1970	
1200	122	18 × 40	0.025	0.050	2510	2210						

Cap. (μF)	Code	Item	80 (1K)									
			Case size φ D × L (mm)	—				6				
				Impedance (Ω) MAX.		Rated ripple (mArms)		Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms)	
				20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz
4.7	4R7	5 × 11	4.20	11.00	53	26						
6.8	6R8	5 × 11	2.60	7.00	68	34						
10	100	6.3 × 11	1.70	4.60	87	43						
12	120	6.3 × 11	1.40	3.80	96	48						
15	150	6.3 × 11	1.20	3.20	104	52						
18	180	6.3 × 11	1.00	2.70	150	78						
22	220	6.3 × 15	0.77	2.10	180	95						
27	270	6.3 × 15	0.63	1.70	220	115						
33	330	8 × 11.5	0.53	1.40	275	150						
39	390	8 × 15	0.46	1.20	300	170	10 × 12.5	0.49	1.30	380	215	
47	470	8 × 15	0.39	1.10	360	215	10 × 12.5	0.42	1.10	410	245	
56	560	8 × 20	0.34	0.92	490	295	10 × 16	0.36	0.97	500	305	
68	680	10 × 20	0.28	0.76	570	355	12.5 × 15	0.31	0.84	520	325	
82	820	10 × 20	0.25	0.68	620	395	12.5 × 15	0.27	0.73	560	355	
100	101	10 × 25	0.21	0.57	795	525	12.5 × 15	0.23	0.62	605	400	
120	121	10 × 31.5	0.18	0.49	870	585	16 × 15	0.20	0.54	663	445	
150	151	10 × 31.5	0.15	0.41	955	665	16 × 15	0.18	0.47	699	470	
180	181	12.5 × 25	0.13	0.35	1040	735	16 × 15	0.15	0.41	766	545	
220	221	12.5 × 31.5	0.12	0.32	1160	845	18 × 15	0.13	0.35	881	645	
270	271	12.5 × 31.5	0.10	0.27	1270	945	16 × 20	0.11	0.30	1240	920	
330	331	12.5 × 35.5	0.088	0.24	1450	1100	16 × 25	0.099	0.27	1440	1100	
390	391	12.5 × 40	0.078	0.21	1610	1250	18 × 20	0.089	0.24	1450	1120	
470	471	16 × 31.5	0.069	0.19	1790	1430	18 × 25	0.080	0.22	1650	1320	
560	561	16 × 35.5	0.062	0.17	2000	1640	18 × 31.5	0.072	0.19	1750	1430	
680	681	16 × 40	0.055	0.15	2200	1830	18 × 31.5	0.065	0.18	1850	1540	
820	821	18 × 35.5	0.049	0.13	2250	1910						
1000	102	18 × 40	0.044	0.12	2370	2050						

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



Standard Ratings

Cap.(μ F)	V(Code) Size code Code	Item	100 (2A)										
			Case size ϕ D \times L (mm)	—				6					
				Impedance (Ω) MAX.		Rated ripple (mA rms)		Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms)		
				20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	-10°C / 100kHz	105°C / 10kHz to 200kHz	105°C / 120Hz	
2.2	2R2	5 × 11	6.60	18.0	43	21							
3.3	3R3	5 × 11	4.10	11.0	54	27							
4.7	4R7	6.3 × 11	2.80	7.60	68	34							
6.8	6R8	6.3 × 11	1.90	5.10	83	41							
10	100	6.3 × 11	1.20	3.20	104	52							
12	120	6.3 × 11	1.00	2.70	150	75							
15	150	6.3 × 15	0.81	2.20	180	90							
18	180	6.3 × 15	0.67	1.80	220	110							
22	220	8 × 11.5	0.55	1.50	275	145							
27	270	8 × 15	0.47	1.30	300	160	10 × 12.5	0.50	1.40		380	205	
33	330	8 × 15	0.38	1.00	360	200	10 × 12.5	0.42	1.10		410	230	
39	390	8 × 20	0.33	0.89	490	280	10 × 16	0.36	0.97		500	285	
47	470	10 × 20	0.28	0.76	570	340	12.5 × 15	0.31	0.84		520	310	
56	560	10 × 20	0.24	0.65	620	375	12.5 × 15	0.27	0.73		560	340	
68	680	10 × 25	0.21	0.57	795	500	12.5 × 15	0.23	0.62		605	380	
82	820	10 × 31.5	0.18	0.49	870	555	16 × 15	0.19	0.51		681	435	
100	101	10 × 31.5	0.15	0.41	955	635	16 × 15	0.17	0.46		719	475	
120	121	12.5 × 25	0.13	0.35	1040	700	16 × 15	0.14	0.38		793	535	
150	151	12.5 × 25	0.11	0.30	1120	780	18 × 15	0.12	0.32		917	640	
180	181	12.5 × 31.5	0.098	0.26	1270	900	16 × 20	0.11	0.30		1240	880	
220	221	12.5 × 35.5	0.087	0.23	1450	1050	16 × 25	0.093	0.25		1440	1050	
270	271	12.5 × 40	0.072	0.19	1610	1200	18 × 20	0.080	0.22		1450	1080	
330	331	16 × 31.5	0.062	0.17	1790	1370	18 × 25	0.070	0.19		1650	1260	
390	391	16 × 35.5	0.053	0.14	2000	1550	18 × 31.5	0.062	0.17		1850	1430	
470	471	16 × 40	0.047	0.13	2200	1760	18 × 35.5	0.056	0.15		1970	1570	
560	561	18 × 35.5	0.041	0.11	2250	1840							
680	681	18 × 40	0.036	0.097	2300	1910							

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

Cap.(μ F)	V(Code) Code	160		200		250		315		350		400		450	
		2C		2D		2E		2F		2V		2G		2W	
1	010	8 × 11.5	19	8 × 11.5	19	8 × 11.5	19	8 × 11.5	19	10 × 12.5	21	10 × 12.5	17	10 × 16	17
2.2	2R2	8 × 11.5	30	8 × 11.5	30	10 × 12.5	32	10 × 12.5	32	10 × 16	34	10 × 16	28	10 × 20	28
3.3	3R3	10 × 12.5	50	10 × 12.5	50	10 × 16	52	10 × 16	52	10 × 20	54	10 × 20	47	12.5 × 20	48
4.7	4R7	10 × 12.5	57	10 × 16	60	10 × 16	60	10 × 20	65	10 × 20	65	12.5 × 20	55	12.5 × 25	55
10	100	10 × 16	90	10 × 20	95	12.5 × 20	98	12.5 × 20	98	12.5 × 25	100	12.5 × 25	85	16 × 25	90
22	220	12.5 × 20	140	12.5 × 25	145	16 × 25	150	16 × 25	150	16 × 25	150	16 × 31.5	130	16 × 35.5	135
33	330	12.5 × 25	175	16 × 25	180	16 × 25	180	16 × 31.5	185	16 × 35.5	190	18 × 35.5	170	18 × 40	170
47	470	16 × 25	220	16 × 25	220	16 × 31.5	225	18 × 35.5	235	18 × 40	240				
100	101	16 × 35.5	330	18 × 40	345	18 × 40	345							Case size ϕ D \times L (mm)	※1

※1 Rated ripple current (mA rms) at 105°C 120Hz

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