

UPM

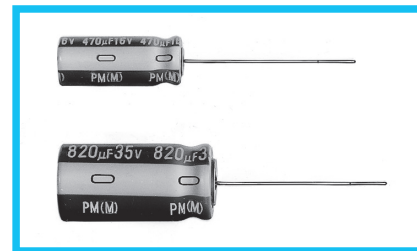
Low Impedance, High Reliability



Low Impedance Long Life

Anti-Solvent
Feature
(Through 100V only)**UPM**

Smaller

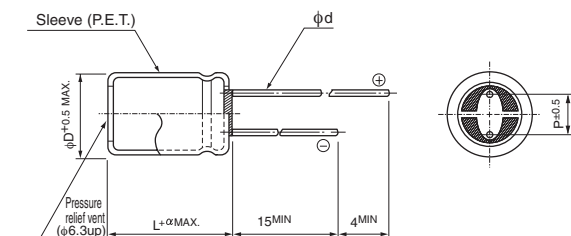
UPW

- 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,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

■ 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) or less. CV > 1000 : I = 0.04CV+100 (μA) or less.													
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	120Hz																				
											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	—
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															
	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 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.																				
	Leakage current					Less than or equal to the initial specified value															

■ 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)

1 2 3 4 5 6 7 8 9 10 11 12
U P M 1 E 4 7 1 M P D

Configuration ※
Capacitance tolerance (±20%)
Rated capacitance (470µF)
Rated voltage (25V)
Series name
Type

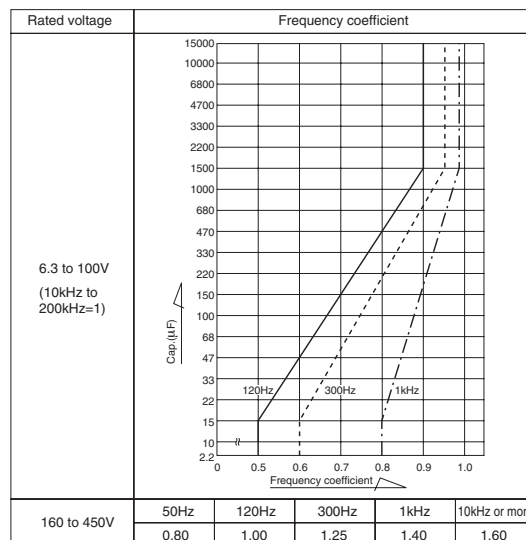
Size code

Type	Code
Small Dia	—
Low Profile	6

※ 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.

UPM

■ Dimensions

φ D × L (mm)

V(Code) Size code		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)	
Cap.(μF)	Code	—	6	—	6	—	6	—	6	—	6
22	220									5 × 11	
27	270									5 × 11	
33	330							5 × 11		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	10 × 12.5
150	151	6.3 × 11		6.3 × 11		6.3 × 15		8 × 11.5		8 × 15	10 × 12.5
180	181	6.3 × 11		6.3 × 11		6.3 × 15		8 × 15	10 × 12.5	8 × 20	10 × 16
220	221	6.3 × 11		6.3 × 15		8 × 11.5		8 × 15	10 × 12.5	8 × 20	10 × 16
270	271	6.3 × 15		6.3 × 15		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15
330	331	6.3 × 15		8 × 11.5		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15
390	391	8 × 11.5		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25	12.5 × 15
470	471	8 × 15	10 × 12.5	8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5	16 × 15
560	561	8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25	12.5 × 15	12.5 × 20	16 × 15
680	681	8 × 20	10 × 16	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25	18 × 15
820	821	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25	12.5 × 15	12.5 × 20	16 × 15	12.5 × 25	18 × 15
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	16 × 20
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	16 × 25
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	18 × 20
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	18 × 25
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	18 × 31.5
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	18 × 35.5
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									

V(Code) Size code		50 (1H)		63 (1J)		80 (1K)		100 (2A)	
Cap.(μF)	Code	—	6	—	6	—	6	—	6
2.2	2R2	5 × 11						5 × 11	
3.3	3R3	5 × 11						5 × 11	
4.7	4R7	5 × 11				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	10 × 16
47	470	6.3 × 15		8 × 11.5		8 × 15	10 × 12.5	10 × 20	12.5 × 15
56	560	6.3 × 15		8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15
68	680	8 × 11.5		8 × 15	10 × 12.5	10 × 20	12.5 × 15	10 × 25	12.5 × 15
82	820	8 × 15	10 × 12.5	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5	16 × 15
100	101	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 25	12.5 × 15	10 × 31.5	16 × 15
120	121	8 × 20	10 × 16	10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25	16 × 15
150	151	10 × 20	12.5 × 15	10 × 25	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25	18 × 15
180	181	10 × 20	12.5 × 15	10 × 31.5	16 × 15	12.5 × 25	16 × 15	12.5 × 31.5	16 × 20
220	221	10 × 25	12.5 × 15	12.5 × 20	16 × 15	12.5 × 31.5	18 × 15	12.5 × 35.5	16 × 25
270	271	10 × 31.5	16 × 15	12.5 × 25	18 × 15	12.5 × 31.5	16 × 20	12.5 × 40	18 × 20
330	331	10 × 31.5	16 × 15	12.5 × 25	18 × 15	12.5 × 35.5	16 × 25	16 × 31.5	18 × 25
390	391	12.5 × 25	16 × 15	12.5 × 31.5	16 × 20	12.5 × 40	18 × 20	16 × 35.5	18 × 31.5
470	471	12.5 × 25	18 × 15	12.5 × 35.5	16 × 25	16 × 31.5	18 × 25	16 × 40	18 × 35.5
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 218 page.

UPM

■ Dimensions

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

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

UPM

■ Dimensions

V(Code) Size Code Item Cap.(μF) Code		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 / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	−10°C / 100kHz	105°C / 10kHz 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 Cap.(μF) Code		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 / 10kHz to 200kHz	105°C / 120Hz		20°C / 100kHz	−10°C / 100kHz	105°C / 10kHz 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.

UPM

■ Dimensions

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

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

UPM

■ Dimensions

Cap.(μF)		Code	Item	V(Code)		63 (1J)											
				Size code		—						6					
				Case size φ D × L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms)		Case size φ D × 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				
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)									
			V(Code)		Size code		—					
							6					
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mA rms)		Case size φD × 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
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.

UPM

■ Dimensions

Cap.(μF)	Code	Item	100 (2A)									
			—				6					
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mAmps)		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mAmps)	
				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.(μF)	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 φD × L (mm)	※1

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



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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