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Low Impedance, High Reliability

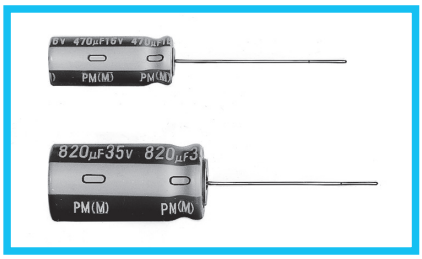
Low Impedance | Long Life | Anti-Solvent Feature (Through 100V only)

- 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.

UPM

Smaller

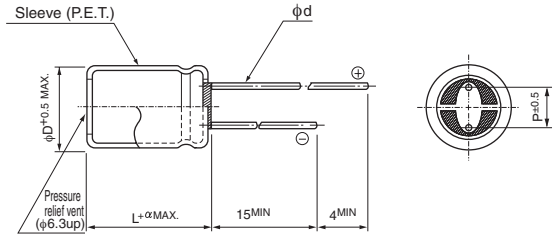
UPW



■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	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	—	—	—	—	—
	120Hz									
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								
	Leakage current	Less than or equal to 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. φ d = 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	

Size code

Type	Code
Small Dia	—
Low Profile	6

Configuration ※

Capacitance tolerance (±20%)

Rated capacitance (470µF)

Rated voltage (25V)

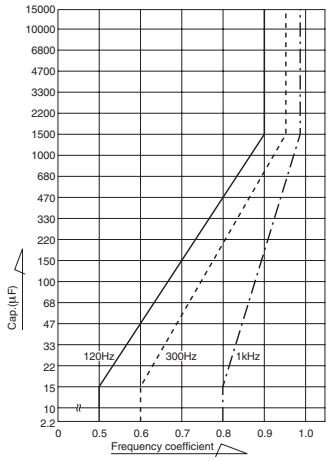
Series name

Type

※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

Rated voltage	Frequency coefficient				
6.3 to 100V (10kHz to 200kHz=1)					
160 to 450V	50Hz	120Hz	300Hz	1kHz	10kHz or more
	0.80	1.00	1.25	1.40	1.60

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.

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■Dimensions

φD×L (mm)

Cap.(μF)	V(Code) / Size code / 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							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									

Cap.(μF)	V(Code) / Size code / 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				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.

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■Dimensions

V(Code) / Size code / Item / Code / Cap.(μF)		6.3 (0J)									
		—					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
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 / Code / Cap.(μF)		10 (1A)									
		—					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
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.

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■Dimensions

V(Code) / Size Code / Item / Cap.(μF) Code		16 (1C)									
		—					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
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 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
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)	Code	35 (1V) — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 105°C / 120Hz	35 (1V) 6 — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 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)	Code	50 (1H) — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 105°C / 120Hz	50 (1H) 6 — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 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	V(Code) / Size code	63 (1J) — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 105°C / 120Hz	63 (1J) 6 — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 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	V(Code) / Size code	80 (1K) — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 105°C / 120Hz	80 (1K) 6 — Case size φD × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Impedance (Ω) MAX. −10°C / 100kHz	Rated ripple (mArms) 105°C / 10kHz to 200kHz	Rated ripple (mArms) 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

V(Code) / Size code / Item / Cap.(μF) / Code		100 (2A)									
		—					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	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.

V(Code) / 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			Case size φD × L (mm)	※1
100	101	16 × 35.5	330	18 × 40	345	18 × 40	345								

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

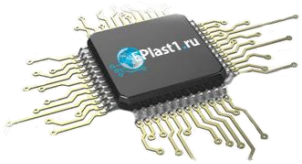
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.