

ALUMINUM ELECTROLYTIC CAPACITORS

型号UP50.22MED供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货



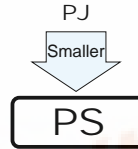
PS

Miniature Sized, Low Impedance,
For Switching Power Supplies
series



Smaller Low Impedance Anti-Solvent Feature (Through 100V only)

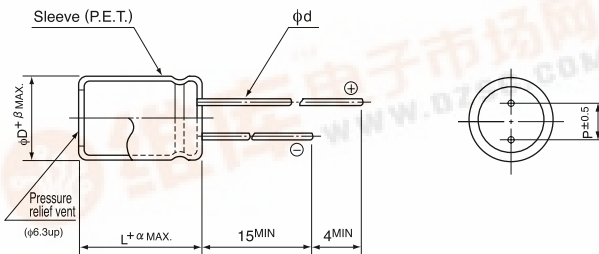
- Wide temperature range type, miniature sized.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 ~ +105°C (6.3 ~ 100V), -40 ~ +105°C (160 ~ 400V), -25 ~ +105°C (450V)											
Rated Voltage Range	6.3 ~ 450V											
Rated Capacitance Range	0.47 ~ 15000µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 ~ 100 160 ~ 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. CV ≤ 1000: I = 0.1CV+40 (µA)max. (1 minute's) CV > 1000: I = 0.04CV+100 (µA)max. (1 minute's)										
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 ~ 250 315 ~ 350 400 ~ 450										
Stability at Low Temperature	Impedance ratio (MAX.)	Measurement frequency: 120Hz										
		Rated voltage (V)		6.3 · 10	16 · 25	35 · 50	63 · 100	160 · 200	250	315 · 350	400	450
		Z-25°C / Z+20°C		—	—	—	2	3	3	4	6	15
		Z-40°C / Z+20°C		—	—	—	3	4	6	8	10	—
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 3000 hours (2000 hours for D = 5 ~ 10) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.											
	Capacitance change	tan δ	Leakage current	Within ±20% of initial value 200% or less of initial specified value Initial specified value or less								
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.											
Marking	Printed with white color letter on dark brown sleeve.											

Radial Lead Type



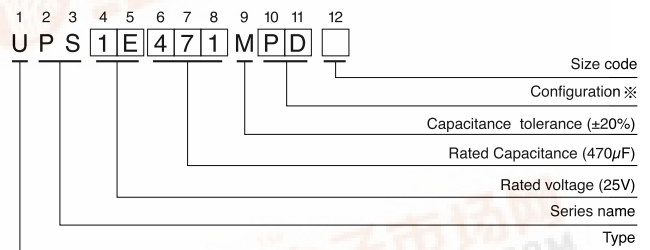
α	(L < 20)		(L ≥ 20)		(mm)										
	1.5	2.0	2.0	2.0	φD	5	6.3	8	10	12.5	16	18	20	22	25
					P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
					φd	0.5	0.5	0.6	0.6	0.6	0.6	0.8	1.0	1.0	1.0
					β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

● Please refer to page 21 about the end seal configuration.

Frequency coefficient of rated ripple current

V	Cap.(µF)	Frequency					
		50Hz	120Hz	300Hz	1kHz	10kHz ~	
6.3 ~ 100	~ 47	—	0.17	0.40	0.65	1.00	
	100 ~ 220	0.30	0.50	0.65	0.80	1.00	
	330 ~ 680	0.57	0.71	0.82	0.90	1.00	
	1000 ~ 15000	0.75	0.87	0.96	0.98	1.00	
160 ~ 450	0.47 ~ 220	0.80	1.00	1.25	1.40	1.60	
	330 ~ 470	0.90	1.00	1.10	1.13	1.15	

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 ~ 18	HD
20 ~ 25	RD

ALUMINUM ELECTROLYTIC CAPACITORS



PS series

Standard ratings

V (Code)		6.3 (0J)			10 (1A)			16 (1C)			25 (1E)			
Cap. (µF)	Code	Item	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple
			φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz
4.7	4R7											5×11	1.50	160
10	100								5×11	1.50	160	5×11	1.50	160
22	220		5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
33	330		5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
47	470		5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
100	101		5×11	1.50	160	5×11	1.50	160	6.3×11	0.50	250	6.3×11	0.50	250
150	151		6.3×11	0.50	250	6.3×11	0.50	250	6.3×11	0.50	250	8×11.5	0.28	410
220	221		6.3×11	0.50	250	6.3×11	0.50	250	8×11.5	0.28	410	8×11.5	0.28	410
330	331		6.3×11	0.50	250	8×11.5	0.28	410	8×11.5	0.28	410	10×12.5	0.19	600
470	471		8×11.5	0.28	410	8×11.5	0.28	410	10×12.5	0.19	600	10×16	0.14	800
680	681		10×12.5	0.19	600	10×12.5	0.19	600	10×16	0.14	800	10×20	0.11	1000
1000	102		10×12.5	0.19	600	10×16	0.14	800	10×20	0.11	1000	12.5×20	0.075	1250
1500	152		10×20	0.11	1000	10×20	0.11	1000	12.5×20	0.075	1250	16×25	0.038	1900
2200	222		12.5×20	0.075	1250	12.5×20	0.075	1250	12.5×25	0.057	1550	16×25	0.038	1900
3300	332		12.5×20	0.075	1250	12.5×25	0.057	1550	16×25	0.038	1900	16×31.5	0.033	2350
4700	472		16×25	0.038	1900	16×25	0.038	1900	16×31.5	0.033	2350	18×35.5	0.030	2700
6800	682		16×25	0.038	1900	16×31.5	0.033	2350	18×35.5	0.030	2700	18×40	0.027	3300
10000	103		16×31.5	0.033	2350	18×35.5	0.030	2700	18×40	0.027	3300			
15000	153		18×35.5	0.030	2700	18×40	0.027	3300						

V (Code)		35 (1V)			50 (1H)			63 (1J)			100 (2A)			
Cap. (µF)	Code	Item	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple
			φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φD × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz
0.47	R47					5×11	7.50	25				5×11	43.0	20
1	010					5×11	5.30	40				5×11	20.0	30
2.2	2R2					5×11	4.50	55				5×11	9.80	44
3.3	3R3					5×11	3.90	65				5×11	6.60	58
4.7	4R7		5×11	1.50	160	5×11	3.50	90	5×11	4.70	68	5×11	4.60	74
10	100		5×11	1.50	160	5×11	2.10	120	5×11	2.10	110	6.3×11	1.80	130
22	220		5×11	1.50	160	5×11	1.80	150	6.3×11	0.98	180	8×11.5	0.68	230
33	330		5×11	1.50	160	6.3×11	0.65	250	6.3×11	0.71	220	10×12.5	0.46	320
47	470		6.3×11	0.50	250	6.3×11	0.65	250	8×11.5	0.65	310	10×16	0.37	420
100	101		8×11.5	0.28	410	8×11.5	0.36	340	10×12.5	0.31	390	12.5×20	0.18	580
150	151		8×11.5	0.28	410	10×12.5	0.26	490	10×16	0.25	440	12.5×25	0.13	710
220	221		10×12.5	0.19	600	10×16	0.18	650	10×20	0.20	700	16×25	0.10	890
330	331		10×16	0.14	800	10×20	0.15	810	12.5×20	0.12	980	16×25	0.090	1080
470	471		10×20	0.11	1000	12.5×20	0.13	1100	12.5×25	0.081	1200	16×31.5	0.076	1310
680	681		12.5×20	0.075	1250	12.5×25	0.10	1200	16×25	0.058	1300	16×35.5	0.064	1410
1000	102		12.5×25	0.057	1550	16×25	0.058	1600	16×31.5	0.049	1380	18×40	0.047	1520
1500	152		16×25	0.038	1900	16×31.5	0.040	2000	18×35.5	0.038	1750			
2200	222		16×31.5	0.033	2350	18×35.5	0.035	2300	18×40	0.032	2120			
3300	332		18×35.5	0.030	2700									
4700	472		18×40	0.027	3300									

V		160		200		250		315		350		400		450	
Cap. (µF)	Code	2C		2D		2E		2F		2V		2G		2W	
		φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)	φD × L (mm)	Rated ripple (mArms)
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
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	Δ18 × 40	285	20 × 40	290	22 × 50	350	25 × 50	350
220	221	•18 × 35.5	500	Δ18 × 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 (mArms) at 105°C 120Hz