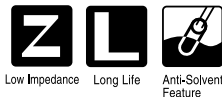
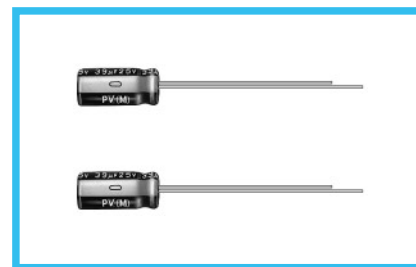


ALUMINUM ELECTROLYTIC CAPACITORS

PV series Miniature Sized, Low Impedance, High Reliability



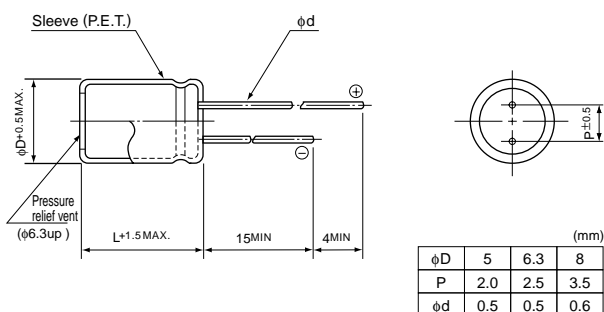
- Miniature sized low impedance series withstanding 5000 hours load life at +105°C.
- Compliant to the RoHS directive (2002/95/EC).



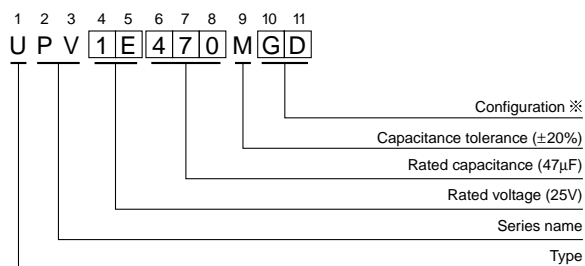
Specifications

Item	Performance Characteristics							
Category Temperature Range	-55 to +105°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	0.47 to 390μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.							
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C							
	Rated voltage (V)	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	6.3	10	16	25	35	50	
	Impedance ratio ZT / Z20 (MAX.)	Z-55°C / Z+20°C	5	5	4	3	3	2
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.		Capacitance change	Within ±30% of the initial capacitance value				
			tan δ	300% or less than the initial specified value				
			Leakage current	Less than or equal to the initial specified value				
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed 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



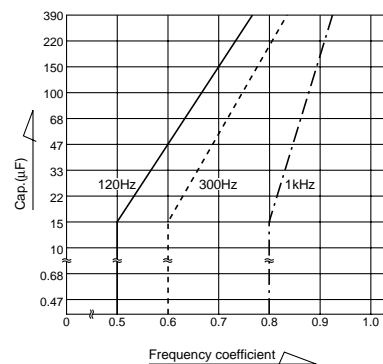
Type numbering system (Example : 25V 47μF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	FD
6.3 · 8	GD

- Frequency coefficient of rated ripple current (10kHz to 200kHz=1)



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

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
			φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz
33		330										5 × 11	1.40	155
39		390										5 × 11	1.10	175
47		470							5 × 11	1.40	155	6.3 × 11	0.94	210
56		560							5 × 11	1.10	175	6.3 × 11	0.75	235
68		680				5 × 11	1.40	155	6.3 × 11	0.85	220	6.3 × 11	0.61	260
82		820				5 × 11	1.10	175	6.3 × 11	0.71	240	6.3 × 11	0.51	285
100		101	5 × 11	1.50	150	6.3 × 11	0.94	210	6.3 × 11	0.60	265	8 × 11.5	0.41	370
120		121	5 × 11	1.10	175	6.3 × 11	0.75	235	6.3 × 11	0.49	290	8 × 11.5	0.34	405
150		151	6.3 × 11	0.83	225	6.3 × 11	0.60	265	8 × 11.5	0.39	375	8 × 11.5	0.27	460
180		181	6.3 × 11	0.66	250	6.3 × 11	0.49	290	8 × 11.5	0.34	405			
220		221	6.3 × 11	0.51	285	8 × 11.5	0.41	370	8 × 11.5	0.27	460			
270		271	8 × 11.5	0.41	370	8 × 11.5	0.34	405						
330		331	8 × 11.5	0.34	405	8 × 11.5	0.27	460						
390		391	8 × 11.5	0.29	445									

V(Code)		35 (1V)			50 (1H)			
Cap. (μF)	Code	Item	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple
			φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz	φ D × L (mm)	(Ω) MAX. 20°C/100kHz	(mArms) 105°C/100kHz
0.47		R47				5 × 11	32.0	22
0.68		R68				5 × 11	22.0	28
1		010				5 × 11	15.0	36
1.5		1R5				5 × 11	11.0	45
2.2		2R2				5 × 11	7.00	54
3.3		3R3				5 × 11	4.60	66
4.7		4R7				5 × 11	3.10	81
6.8		6R8				5 × 11	2.50	91
10		100				5 × 11	2.00	115
12		120				5 × 11	1.70	125
15		150				5 × 11	1.30	145
18		180				5 × 11	1.10	155
22		220	5 × 11	1.30	160	6.3 × 11	0.91	195
27		270	5 × 11	1.00	180	6.3 × 11	0.74	215
33		330	6.3 × 11	0.83	225	6.3 × 11	0.60	240
39		390	6.3 × 11	0.70	245	6.3 × 11	0.50	260
47		470	6.3 × 11	0.58	270	8 × 11.5	0.42	330
56		560	6.3 × 11	0.48	295	8 × 11.5	0.35	360
68		680	8 × 11.5	0.41	370	8 × 11.5	0.28	410
82		820	8 × 11.5	0.32	415			
100		101	8 × 11.5	0.27	460			