ALUMINUM ELECTROLYTIC CAPACITORS



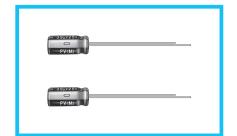
Miniature Sized, Low Impedance, High Reliability







- \bullet Miniature sized low impedance series with standing 5000 hours load life at +105°C.
- Compliant to the RoHS directive (2011/65/EU).

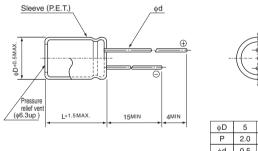




■Specifications

Item	Performance Characteristics										
Category Temperature Range	−55 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	1.5 to 390μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
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.										
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16		25	35	50			
	tan δ (MAX.)	0.22	0.19	0.1	6	0.14	0.12	0.10			
	Measurement frequency : 120Hz										
Stability at Low Temperature	Rated	voltage (V)		6.3	10	16	25	35	50		
	Impedance ratio ZT / Z20	°C / Z+20°C	5	5	4	3	3	2			
	The specifications listed at right shall be met when					ance chang	→ Within ±3	Within ±30% of the initial capacitance value			
Endurance	the capacitors are re	estored to 20	tan δ		300% or le	300% or less than the initial specified value					
	voltage is applied fo	r 5000 hours	Leas than or equal to the initial specified v				cified value				
	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					Consider a house Within 1999/ of the initial conscitence value					
Shelf Life						Capacitance change tan δ		Within ±20% of the initial capacitance value 150% or less than the initial specified value			
						Leakage current		Less than or equal to the initial specified value			
	20°C, they shall meet the specified values for the endurance characteristics listed at right.								omou valuo		
Marking	Printed with white color letter on dark brown sleeve.										

■Radial Lead Type

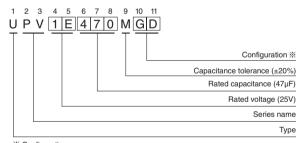




			(mm)
φD	5	6.3	8
Р	2.0	2.5	3.5
φd	0.5	0.5	0.6

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

Type numbering system (Example : $25V 47\mu F$)

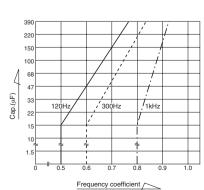


 Configuration
 Pb-free leadwire Pb-free PET sleeve

 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.

UPV

■ Dimensions

V(Code) 6.3 (0J)		10 (1A)			16 (1C)			25 (1E)					
Cap.(µF)	Item	Case size ϕ D × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD×L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size \$\phi D \times L\$ (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (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)		Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	
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				