ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

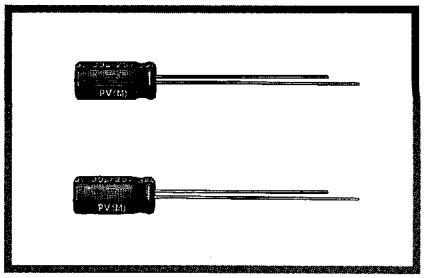
PV

Miniature Sized, Low Impedance, High Reliability series

Low Impedance | Long Life | Anti-Solvent Feature

- Miniature sized low impedance series withstanding 5000 hours load life at +105℃.

PJ (69) Long Life → PV



■Specifications

Item	Performance Characteristics
Operating Temperature Range	−55～+105℃
Voltage Range	6.3～50V
Capacitance Range	0.47～390 μF
Capacitance Tolerance	±20% at 120Hz, 20℃
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.
tan δ	Measurement frequency : 120Hz, Temperature : 20℃

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℃/Z+20℃	5	5	4	3	3	2

Load Life — After 5000 hours' application of rated voltage at 105℃, capacitors meet the characteristics requirements listed at right.

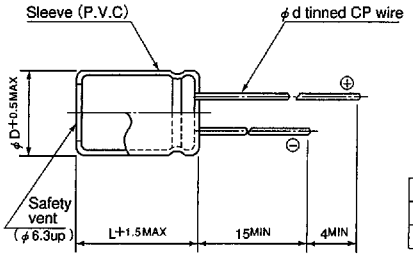
Capacitance change	Within ±30% of initial value
tan δ	300% or less of initial specified value
Leakage current	Initial specified value or less

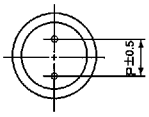
Shelf Life — After leaving capacitors under no load at 105℃ for 1000 hours, they meet the specified value for load life characteritics listed at right.

Capacitance change	Within ±20% of initial value
tan δ	150% or less of initial specified value
Leakage current	Initial specified value or less

Marking	Printed with white color letter on dark brown sleeve.
Applicable Standards	JIS C-5141 and JIS C-5102.

■Radial Lead Type





φD	5	6.3	8
P	2.0	2.5	3.5
φd	0.5	0.5	0.6

Type numbering system (Example : 25V 47 μF φ6.3×11)

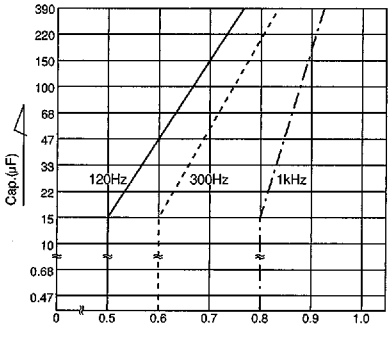
1	2	3	4	5	6	7	8	9	10	11
U	P	V	1	E	4	7	0	M	G	H

Configuration

φD	Code
5	FH
6.3・8	GH

Capacitance tolerance (±20%)
Capacitance (47 μF)
Rated voltage (25V)
Series name
Type

●Frequency coefficient of allowable ripple current (10kHz～200kHz=1)



PV series

■Dimensions

Cap.(μF) \ V(Code) / Item / Code		6.3 (0J)			10 (1A)			16 (1C)			25 (1E)		
		Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 100kHz	Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 100kHz	Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 100kHz	Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 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									

Cap.(μF) \ V(Code) / Item / Code		35 (1V)			50 (1H)		
		Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 100kHz	Case size φD×L (mm)	Impedance (Ω) MAX. 20℃ 100kHz	Allowable ripple (mA rms) 105℃ 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			