SMD Aluminum Electrolytic Capacitors VEJ

Features

- 4 ~ 18φ, 105℃, 2,000 hours assured
- Designed for surface mounting on high density PC board
- RoHS Compliance

Marking color: Black

SPECIFICATIONS

Items	Performance	
Category Temperature Range	6.3 ~ 100V	160 ~ 450V
	-55℃ ~ +105℃	-40℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)	

Leakage Current (at 20℃)

Rated voltage	6.3 ~ 100V		160 ~ 450V
Time	after 2 minutes		after 5 minutes
Case size	4 ~ 10φ	12.5 ~ 18φ	12.5 ~ 18φ
Leakage Current	I = 0.01CV or 3μA, whichever is greater	I = 0.03CV or 4μA, whichever is greater	I = 0.04CV + 100μA

Where, C = rated capacitance in μF V = rated DC working voltage in V

Dissipation Factor (Tan δ at 120Hz, 20℃)

Rated Voltage	6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450
4 ~ 10φ	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	-	-
12.5 ~ 18φ	0.40	0.38	0.34	0.26	0.22	0.18	0.14	0.10	0.20	0.25

When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.

Low Temperature Characteristics (at 120Hz)

Impedance ratio shall not exceed the values given in the table below.

Rated Voltage			6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450
Impedance Ratio	Z(-25℃) /Z(+20℃)	φD < 12.5	4	4	3	2	2	2	2	3	-	-
		φD ≧ 12.5	5	4	3	2	2	2	2	2	3	6
	Z(-55/-40℃) /Z(+20℃)	φD < 12.5	12	8	6	4	3	3	3	4	-	-
		φD ≧ 12.5	10	8	6	4	3	3	3	3	6	10

Endurance

Test Time	2,000 Hrs
Capacitance Change	Within ±25% of initial value for φD ≦ 6.3mm; Within ±20% of initial value for φD ≧ 8mm
Dissipation Factor	Less than 300% of specified value for φD ≦ 6.3mm; Less than 200% of specified value for φD ≧ 8mm
Leakage Current	Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 hours at 105℃.

Shelf Life Test

Test time: 1,000 hours; other items are the same as those for the Endurance.
The rated voltage shall be applied to the capacitors before the measurements for 160 ~ 450V (Refer to JIS C 5101-4 4.1).

Ripple Current & Frequency Multipliers

Cap. (μF) \ Freq. (Hz)	50	120	1k	10k up
Under 1,000	0.80	1.00	1.25	1.40
1,000 < C ≦ 4,700	0.85	1.00	1.15	1.25

DIAGRAM OF DIMENSIONS

Fig. 1

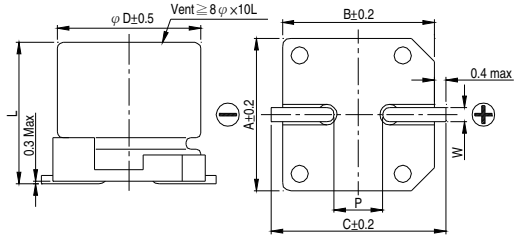
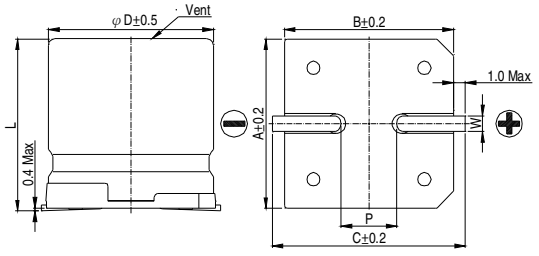


Fig. 2

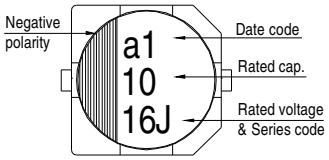


LEAD SPACING AND DIAMETER Unit: mm

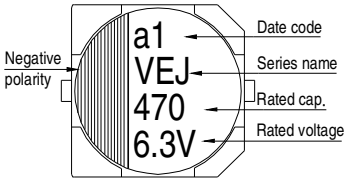
φD	L	A	B	C	W	P ± 0.2	Fig. No.
4	5.7 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0	1
5	5.7 ± 0.3	5.3	5.3	6.1	0.5 ~ 0.8	1.5	1
6.3	5.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
6.3	7.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
8	10 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1	1
10	7.7 ± 0.3	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
10	10 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
10	10.3 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
12.5	13.5 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
12.5	16 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
16	16.5 ± 0.5	17.0	17.0	19.0	1.1 ~ 1.4	6.4	2
18	16.5 ± 0.5	19.0	19.0	21.0	1.1 ~ 1.4	6.4	2

MARKING

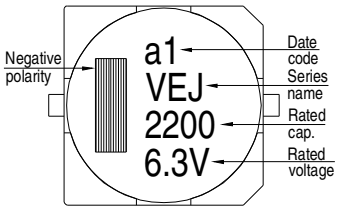
ϕD ≦ 6.3mm



ϕD = 8 ~ 10 mm



ϕD ≧ 12.5mm



DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 120 Hz, 105°C

V. DC		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
μF	Contents	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
0.22	R22											4×5.7	3				
0.33	R33											4×5.7	4				
0.47	R47											4×5.7	5	4×5.7	5		
1	010											4×5.7	8	4×5.7	8		
2.2	2R2											4×5.7	12	4×5.7	12		
3.3	3R3											4×5.7	14	5×5.7	17		
4.7	4R7							4×5.7	17	4×5.7	17	5×5.7	20	6.3×5.7	22		
10	100					4×5.7	20	4×5.7	20	5×5.7	27	6.3×5.7	32	6.3×5.7	32		
22	220	4×5.7	22	4×5.7	22	5×5.7	30	5×5.7	30	6.3×5.7	44	6.3×5.7	38	6.3×7.7	58	8×10	100
33	330	5×5.7	34	5×5.7	34	5×5.7	34	6.3×5.7	46	6.3×5.7	46	6.3×7.7	65	8×10	140	10×10	150
47	470	5×5.7	38	5×5.7	38	6.3×5.7	48	6.3×5.7	48	6.3×7.7	80	6.3×7.7	70	8×10	170	12.5×13.5	250
100	101	6.3×5.7	69	6.3×5.7	69	6.3×5.7	69	6.3×7.7	100	8×10	240	8×10	210	10×10.3	310	12.5×13.5	380
220	221	6.3×7.7	120	6.3×7.7	120	6.3×7.7	120	8×10 10×7.7	270 270	8×10	270	10×10.3	330	12.5×13.5	470	16×16.5	450
330	331	8×10	290	8×10	290	8×10 10×7.7	290 290	8×10	290	10×10	370	12.5×13.5	490	16×16.5	650	18×16.5	590
470	471	8×10	320	8×10 10×7.7	320 320	10×10	380	10×10	380	12.5×13.5	520	12.5×16	550	16×16.5	700		
1,000	102	10×10	410	10×10.3	410	12.5×13.5	550	12.5×16	550	16×16.5	800	18×16.5	990				
2,200	222	12.5×13.5	680	12.5×13.5	680	16×16.5	900	16×16.5	900	18×16.5	1,050						
3,300	332	12.5×16	850	16×16.5	950	16×16.5	950	18×16.5	1,150								
4,700	472	16×16.5	1,000	16×16.5	1,000	18×16.5	1,225										
6,800	682	18×16.5	1,290	18×16.5	1,290												

V. DC		160V (2C)		200V (2D)		250V (2E)		400V (2G)		450V (2W)	
μF	Contents	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
3.3	3R3					12.5×13.5	60			12.5×13.5	40
4.7	4R7					12.5×13.5	65	12.5×13.5	45	12.5×13.5	45
10	100			12.5×13.5	80	12.5×13.5	70	12.5×13.5	50	12.5×16	75
22	220			12.5×16	110	12.5×13.5	105	16×16.5	85	16×16.5	85
33	330	12.5×13.5	95	12.5×16	120	16×16.5	180	18×16.5	100	18×16.5	100
47	470	16×16	240	16×16.5	220	16×16.5	220				
100	101	16×16.5	250	18×16.5	280	18×16.5	260				

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