SURFACE MOUNT ALUMINUM ELECTROLYTIC

NV Non-polar Series

●Features :105℃ 2000 hours,Non-polarized,Low profile vertical chip, 5.5mm height (≦ φ 6.3)
●Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer,
OA/HA/Communication,Reversed polarity circuit
●Corresponding product to RoHS

■ Specifications

Item	Characteristics
Operating Temperature Range	-40 ~ +105℃
Rated Voltage Range (WV)	6.3 ~ 35VDC
Capacitance Range	1 ~ 47 μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃
Leakage Current (MAX) (20℃)	I≦0.01CV or 3(μA) , whichever is greater. (After rated voltage applied for 2 minutes)
	I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	Shown in the table of standard rating
Low Temperature Stability Impedance Ratio (MAX)	

WV / Z(120HZ)	6.3	10	16	25	35	50
Z(-25℃) / Z(20℃)	4	3	2	2	2	2
Z(-40℃) / Z(20℃)	8	6	4	4	3	3

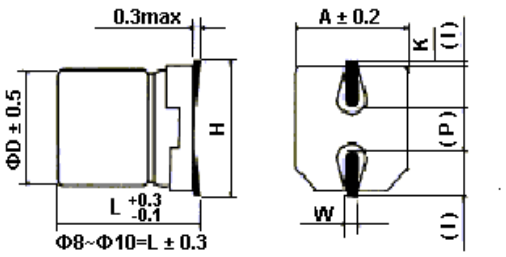
Endurance

After applying rated voltage for 2000hrs at 105℃,
the capacitors shall meet the following requirements. (The polarity shall be reversed every 250 hours)

Capacitance Change	Within ±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not more than the specified value

Shelf Life	After placed at 105℃ without voltage applied for 1000 hours, the capacitor shall meet the same requirement as Endurance.

■ Diagram of Dimensions(mm)



( ) : Reference size

φD	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5 Max	1.8	0.65±0.1	1.0±0.2	0.35 +0.15 -0.20
5.0	5.4	5.3	6.5 Max	2.2	0.65±0.1	1.5±0.2	0.35 +0.15 -0.20
6.3	5.4	6.6	7.8 Max	2.6	0.65±0.1	1.8±0.2	0.35 +0.15 -0.20

■ Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	1K	10K
Coefficient	0.85	1.00	1.10	1.20

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■Dimensions,Max Dissipation Factor,Max Permissible Ripple Current

Capacitance (μF)	Rated (Surge) Voltage											
	6.3(8)			10(13)			16(20)			25(32)		
	Size	tan δ	Ripple	Size	tan δ	Ripple	Size	tan δ	Ripple	Size	tan δ	Ripple
2.2												
3.3										4x5.4	0.28	12
4.7							4x5.4	0.32	20	5x5.4	0.28	21
10				4x5.4	0.40	25	5x5.4	0.32	25	6.3x5.4	0.28	28
22	5x5.4	0.52	29	6.3x5.4	0.40	39	6.3x5.4	0.32	39			
33	6.3x5.4	0.52	43	6.3x5.4	0.40	43						
47	6.3x5.4	0.52	46									

Capacitance (μF)	Rated (Surge) Voltage					
	35(44)			50(63)		
	Size	tan δ	Ripple	Size	tan δ	Ripple
1				4x5.4	0.24	10
2.2	4x5.4	0.24	12	5x5.4	0.24	16
3.3	5x5.4	0.24	21	5x5.4	0.24	21
4.7	5x5.4	0.24	22	6.3x5.4	0.24	31
10	6.3x5.4	0.24	30			

☆Size:D φ x L(mm).☆tan δ :20℃,120Hz.☆Ripple Current: 105℃,120Hz,(mA/rms).