

NV Non-polar Series

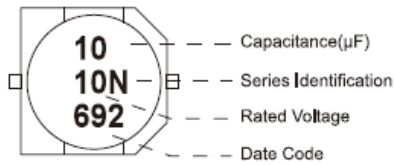
- Endurance: 105°C 2000 hours
- Recommended Applications: Non-polarized, Low profile vertical chip, 5.5mm height ($\cong \Phi 6.3$)
- Corresponding product to RoHS



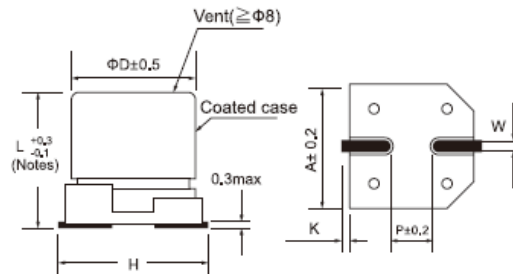
■ Specifications

Item	Characteristics																							
Category Temperature Range	-55 ~ +105°C																							
Rated Voltage Range	6.3 ~ 50VDC																							
Rated Capacitance Range	1 ~ 47 μ F																							
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																							
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 \mu A$, whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)																							
Dissipation Factor(MAX) (tan δ) (120Hz, 20°C)	Shown in the table of standard rating																							
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <thead> <tr> <th rowspan="3">WV Z(120HZ)</th> <th colspan="5">WV</th> </tr> <tr> <th>6.3</th> <th>10</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	WV Z(120HZ)	WV					6.3	10	25	35	50	Z(-25°C) / Z(20°C)	4	3	2	2	2	Z(-40°C) / Z(20°C)	8	6	4	3	3
WV Z(120HZ)	WV																							
	6.3		10	25	35	50																		
	Z(-25°C) / Z(20°C)	4	3	2	2	2																		
Z(-40°C) / Z(20°C)	8	6	4	3	3																			
Endurance	After applying rated voltage for 2000Hrs at 105°C, Stay back to 20 °C temperature measurement, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within $\pm 20\%$ of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value</td> </tr> </table>	Capacitance Change	Within $\pm 20\%$ of the initial value	Dissipation Factor	Not more than 200% of the specified value	Leakage Current	Not more than the specified value																	
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Shelf Life	After placed at 105°C without voltage applied for 1000 hours, Stay back to 20 °C temperature measurement, the capacitor shall meet the same requirement as Endurance.																							

■ MARKING



■ Dimensions [mm]



(Notes) $\Phi 8 \sim \Phi 10 \& 6.3 \times 7.7 = L \pm 0.3$

Dimensions	ΦD	L	A	H	W	P	K
B01	4.0	5.4	4.3	5.5 Max	0.65 \pm 0.1	1.0	0.35+0.15/-0.2
C01	5.0	5.4	5.3	6.5 Max	0.65 \pm 0.1	1.5	0.35+0.15/-0.2
E01	6.3	5.4	6.6	7.8 Max	0.65 \pm 0.1	1.8	0.35+0.15/-0.2

■ Multiplier for Ripple Current

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

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms 105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms 105°C) (120Hz)
6.3(8)	22	5x5.4	0.52	29	25(32)	4.7	5x5.4	0.28	21
	33	6.3x5.4	0.52	43		10	6.3x5.4	0.28	28
	47	6.3x5.4	0.52	46	35(44)	2.2	4X5.4	0.24	12
10(13)	10	4X5.4	0.40	25		3.3	5x5.4	0.24	21
	22	6.3x5.4	0.40	39		4.7	5x5.4	0.24	22
	33	6.3x5.4	0.40	43		10	6.3x5.4	0.24	30
16(20)	4.7	4X5.4	0.32	20	50(63)	1	4X5.4	0.24	10
	10	5x5.4	0.32	25		2.2	5x5.4	0.24	16
	22	6.3x5.4	0.32	39		3.3	5x5.4	0.24	21
25(32)	3.3	4X5.4	0.28	12		4.7	6.3x5.4	0.24	31