

VNS SERIES CHIP TYPE +85°C(標準品)

- For general purpose, -40°C to +85°C.
- Bi-polariz
- Reflow soldering is available
- Available for high density surface mounting

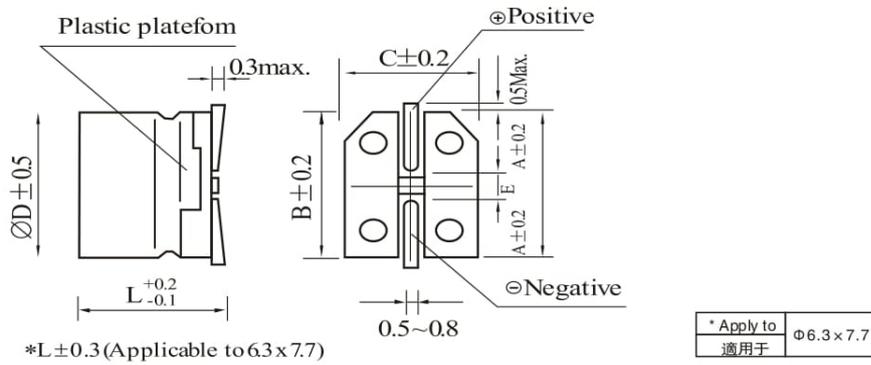
◆ SPECIFICATIONS

Item	Performance Characteristics																																																						
Operating temperature range	-40 to +85°C																																																						
Rated Working Voltage Range	6.3V to 50V																																																						
Nominal Capacitance Range	0.1 to 1500μF																																																						
Capacitance Tolerance	±20(120Hz, +20°C)																																																						
Leakage Current	$I \leq 0.05CRVR$ or $10 (\mu A)$ whichever is greater after (After 2 minutes' application of rated voltage) CR: nominal capacitance (μF) is greater measured with rated working voltage applied at +20 °C																																																						
Dissipation Factor	<table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tan δ(max)</td> <td>0.28</td> <td>0.24</td> <td>0.2</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>		Working Voltage(V)	6.3	10	16	25	35	50	tan δ(max)	0.28	0.24	0.2	0.17	0.15	0.15																																							
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Low Temperature Characteristics	Impedance ratio max at 120Hz <table border="1"> <thead> <tr> <th colspan="2">Working Voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Z-25°C/Z+20°C</td> <td>< Φ8</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>≥ Φ8</td> <td>7</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td rowspan="2">Z-40°C/Z+20°C</td> <td>< Φ8</td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>≥ Φ8</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>		Working Voltage(V)		4	6.3	10	16	25	35	50	63	100	Z-25°C/Z+20°C	< Φ8	7	4	3	2	2	2	2	2	2	≥ Φ8	7	5	4	3	2	2	2	2	2	Z-40°C/Z+20°C	< Φ8	15	8	8	4	4	3	3	3	3	≥ Φ8	15	10	8	6	4	3	3	3	3
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High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +85°C Applied vlotage: Rated DC working voltage with max, ripple current.	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20% of Initial measured value tan δ : ≤ 200% of Initial specified value																																																					
Shelf Life	Test conditions Duration : 1000 hours Ambient temp : +85°C Applied vlotage: (None)	Post test requirements at +20°C Leakage current : ≤ 200% of Initial specified value Cap . Change : ≤ ±30% of Initial measured value tan δ : ≤ 300% of Initial specified value																																																					

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◆Dimensions

(Φ4~Φ6.3)



ØD×L	4×5.4	5×5.4	6.3×5.4	6.3×7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1	1.3	2.1	2.1
L	5.4	5.4	5.4	7.7

Nominal capacitance, rated voltage, rated ripple current and case size table

Voltage	6.3V		10V		16V		25	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1								
0.22								
0.33								
0.47								
1								
2.2								
3.3							4*5.4	12
4.7					4*5.4	20	5*5.4	21
10			4*5.4	25	5*5.4	23	6.3*5.4	27
22	5*5.4	28	6.3*5.4	33	6.3*5.4	39	6.3*7.7	50
33	6.3*5.4	37	6.3*5.4	43	6.3*5.4	49	6.3*7.7	61
47	6.3*5.4	45	6.3*7.7	64	6.3*7.7	75		
100	6.3*5.4	82						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

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Nominal capacitance, rated voltage, rated ripple current and case size table

Voltage Cap(μF)	35		50	
	size	ripple	size	ripple
0.1			4*5.4	1
0.22			4*5.4	2
0.33			4*5.4	2.8
0.47			4*5.4	5
1			4*5.4	10
2.2	4*5.4	12	5*5.4	16
3.3	5*5.4	16	5*5.4	21
4.7	5*5.4	22	6.3*5.4	31
10	6.3*5.4	29	6.3*7.7	36
22	6.3*7.7	54		

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)