

# SNM SERIES(5mmL高,Nonpolar無極性)

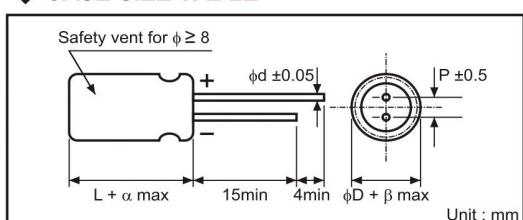
● Nonpolar, high temperature



## ◆ SPECIFICATIONS

Item	Performance Characteristics																											
Operating temperature range	-40 to +85°C																											
Rated Working Voltage Range	6.3 to 50V																											
Nominal Capacitance Range	0.1 to 47μF																											
Capacitance Tolerance	±20(120Hz,+20°C)																											
Leakage Current	I ≤ 0.05CV or 10(μA) after 5 minutes application of rated working voltage at +20°C																											
Dissipation Factor tan δ(120Hz,+20°C)	<table border="1"> <tr> <td>Working Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ(max)</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </table>							Working Voltage(V)	6.3	10	16	25	35	50	tan δ(max)	0.24	0.20	0.17	0.17	0.15	0.15							
Working Voltage(V)	6.3	10	16	25	35	50																						
tan δ(max)	0.24	0.20	0.17	0.17	0.15	0.15																						
Low Temperature Characteristics	<p>Impedance ratio max at 120Hz</p> <table border="1"> <tr> <td>Working Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</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>4</td> <td>3</td> <td>3</td> </tr> </table>							Working Voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	4	3	2	2	2	2	Z-40°C/Z+20°C	8	6	4	4	3	3
Working Voltage(V)	6.3	10	16	25	35	50																						
Z-25°C/Z+20°C	4	3	2	2	2	2																						
Z-40°C/Z+20°C	8	6	4	4	3	3																						
High Temperature Loading	<p>Test conditions</p> <p>Duration : 1000 hours      Post test requirements at +20°C</p> <p>Ambient temp : + 85°C      Leakage current : ≤ Initial specified value</p> <p>Applied voltage : Rated DC working voltage tan δ      Cap . Change : ≤ ±20% of Initial measured value</p> <p>to each polarity every 250 hrs      : ≤ 200% of Initial specified value</p>																											
Shelf Life	<p>Test conditions</p> <p>Duration : 500 hours      Post test requirements at +20°C</p> <p>Ambient temp : + 85°C      Leakage current : ≤ Initial specified value</p> <p>Applied voltage:(None)      Cap . Change : ≤ ±20% of Initial measured value</p> <p>tan δ      : ≤ 200% of Initial specified value</p>																											

## ◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α	1.5			
β	0.5			

## ◆ RIPPLE CURRENT MULTIPLIER

### (1) Frequency Coefficient

freq. (Hz) cap(μF)	50	120	300	1k	10k~
≤47	0.75	1.00	1.35	1.57	2.00

### (2) Temperature Coefficient

Temperature	-55	65	70	85
FACTOR	1.65	1.5	1.30	1.00

# **SNM**

**SERIES(5mmL高,Nonpolar無極性)**

## ◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple				
3.3								
4.7					4*5	12	5*5	12
10			4*5	17	5*5	23	5*5	16
22	5*5	28.0	6.3*5	33	6.3*5	37	6.3*5	27
33	6.3*5	37.0	6.3*5	41	6.3*5	49	8*5	38
47	6.3*5	45.0	8*5	52	8*5	65		

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

Case Size ΦD X L (mm)

Voltage	35V		50V					
Cap(μF)	Size	Ripple	Size	Ripple				
0.1			4*5	1.0				
0.22			4*5	2.0				
0.33			4*5	2.8				
0.47	4*5	8.4	4*5	4.0				
1	5*5	16	4*5	8.4				
2.2	5*5	18	5*5	13				
3.3	6.3*5	29	5*5	17				
4.7			6.3*5	20				
10			8*5	25				

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

Case Size ΦD X L (mm)