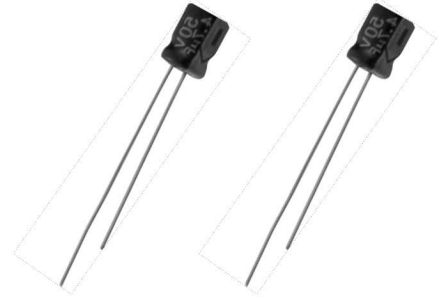


## UNR Series 5 mm, Non-polar (BP) 超小型無極性品

### Features

- Non-polarized with 5m/m for crossover networks of height-pitched, mean and low pitched sounds in high-fidelity sound systems.
- The series offers excellent frequency characteristics and minimal capacitance deviation with frequency.



### Specifications

No	Item	Performance Characteristics																					
1	使用温度範囲 Operating Temperature Range	-40 to + 85°C																					
2	定格電圧範囲 Rated Voltage Range	6.3 to 50 VDC																					
3	静電容量範囲 Capacitance Range	0.1 to 100 $\mu$ F																					
4	静電容量容許差 Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)																					
5	漏電電流 Leakage Current(+20°C, max)	$I \leq 0.05 CV$ or $10(\mu A)$ After 2 minutes, whichever is greater measured with rated working voltage applied.																					
6	損失角 Dissipation Factor( $\tan \delta$ )	<table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>D.F. (%)Max</td> <td>24</td> <td>20</td> <td>17</td> <td>17</td> <td>15</td> <td>15</td> </tr> </table> (+20°C, at 120Hz)	Working Voltage (VDC)	6.3	10	16	25	35	50	D.F. (%)Max	24	20	17	17	15	15							
Working Voltage (VDC)	6.3	10	16	25	35	50																	
D.F. (%)Max	24	20	17	17	15	15																	
7	温度特性 Low Temperature Characteristics (120Hz)	Impedance ratio max. <table border="1"> <tr> <td>Working Voltage (VDC)</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 (VDC)	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 (VDC)	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																	
8	高温負荷特性 High temperature loading	Test conditions Duration time : 1000Hrs Ambient temperature : +85°C Applied voltage : Rated DC working voltage to each polarity for 500 Hrs After test requirements at +20°C Capacitance change : $\leq \pm 20\%$ of the initial measured value (4V : $\leq \pm 30\%$ ) Dissipation factor : $\leq 200\%$ of the initial specified value Leakage current : $\leq$ The initial specified value																					
9	高温無負荷特性 Shelf Life	Test conditions Duration time : 500Hrs Ambient temperature : +85°C Applied voltage : None After test requirements at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																					

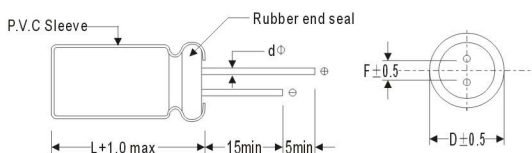
### Multiplier for Ripple Current vs. Frequency

CAP( $\mu$ F)\Hz	50(60)	120	1K	10K $\leq$
Multiplier	0.8	1	1.30	1.45

### Multiplier for Ripple Current vs. Temperature

Temperature°C	50 $\geq$	60	70	85
Multiplier	1.8	1.7	1.6	1.00

### Outline drawing :(Unit:mm)



Dφ	4	5	6.3
F	1.5 $\pm$ 0.5	2.0 $\pm$ 0.5	2.5 $\pm$ 0.5
dφ	0.45		

### Case Size & maximum Ripple Current(mA.rms.120Hz at 85°C)

Size	V	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	∅DXL(mm)
CAP <sub>MF</sub>	0.1							4×5(1.0)
	0.22							4×5(2.0)
	0.33							4×5(2.8)
	0.47							4×5(4.0)
	1							4×5(8.0)
	2.2					4×5(8.0)		5×5(10)
	3.3			4×5(10)	5×5(13)	5×5(14)		5×5(15)
	4.7			4×5(12)	5×5(15)	5×5(16)		6.3×5(18)
	10	4×5(15)	4×5(17)	5×5(23)	6.3×5(25)	6.3×5(28)		8×5(35)
	22	5×5(27)	6.3×5(31)	6.3×5(35)	8×5(45)	8×5(53)		-
	33	6.3×5(35)	6.3×5(40)	6.3×5(47)	8×5(58)	-		-
	47	6.3×5(43)	6.3×5(46)	8×5(62)	-	-		-
	100	8×5(63)	8×5(70)	-	-	-		-