



# Miniature Aluminum Electrolytic Capacitors

Series

CNK

## FEATURES

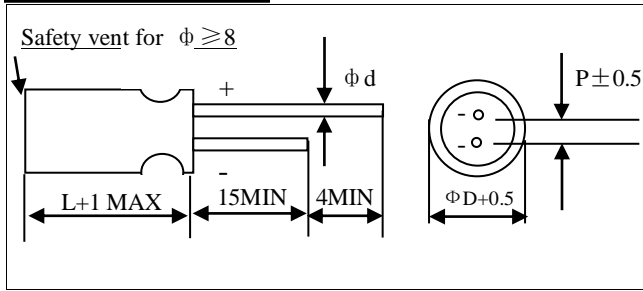
1.Ns Series for crossover networks fo high-pitched,mean and low-pitched sounds in high-fidekoty sound systems,have excellent frequency characteristics and small deviation of capacitance.

## SPECIFICATIONS

Item	Performance Characteristics																																				
Operating Temperature Range	-40 to +105°C																																				
Rated Working voltage Range	6.3 to 50V																																				
Nominal Capacitance Range	0.1 to 220(uF)																																				
Capacitance Tolerance	±20% (120Hz, +20°C)																																				
Leakage Current	I≤0.05CV or 10(uA) after 2 minutes application of rated working voltage at +20°C																																				
Dissipation Factor tan δ (120Hz+20°C)	<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>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table>							Working voltage(V)	6.3	10	16	25	35	50	tan δ (max.)	0.24	0.20	0.16	0.16	0.14	0.12																
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Low Temperature Characteristics	Impedance ratio max. at 120Hz <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>Z-25°C/Z+20°C</td> <td>4</td> <td>2</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> </tbody> </table>							Working voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	4	2	2	2	2	2	Z-40°C/Z+20°C	8	6	4	4	3	3									
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High temperature Loading	Test conditions Duration : 2000 hours Ambient temperature : +105°C Applied voltage : Rated DC working voltage to each polarity very 250 hour Post test requirements at +20°C Leakage current : ≤ Initial specified value Capacitance change : ≤ ±20% of initial measured value tan δ : ≤200% of initial specified value																																				
Shelf life	Test conditions Duration : 1000 hours Ambient temperature : +105°C Applied voltage : (None) Post test requirements at +20°C Same limits for high temperature loading																																				
Others	JIS C-5141 JIS C-5102																																				

## CASE SIZE TABLE

Unit:mm



Dφ	4	5	6.3	8
P	1.5	2.0	2.5	3.5
dφ (±0.05)	0.45	0.45	0.45	0.5

## DIMENSIONS

ΦD×L(mm)

WV(SV)		6.3V(8)		10V(13)		16V(20)	
Cap.(uF)	Code	0J		1A		1C	
4.7	475					4×7	18
10	106			4×7	22	5×7	28
22	226			5×7	36	6.3×7	45
33	336	5×7	40	6.3×7	50	6.3×7	60
47	476	6.3×7	55	6.3×7	65	6.3×7	73
100	107	8×7(9)	90(100)	8×7(9)	105(115)	8×7(9)	120(130)
220	227	8×7(9)	135(150)			Case Size	Allowable ripple

Allowable Ripple (mA rms) at 105°C 120Hz

ΦD×L(mm)

WV(SV)		25V(32)		35V(44)		50V(63)	
Cap.(uF)	Code	1E		1V		1H	
0.1	104					4×7	1.0
0.22	224					4×7	2.3
0.33	334					4×7	3.5
0.47	474					4×7	5.0
1	105					4×7	10
2.2	225					5×7	12
3.3	335			4×7	16	6.3×7	20
4.7	475	5×7	20	5×7	20	6.3×7	25
10	106	6.3×7	32	6.3×7	35	8×7	42
22	226	6.3×7	50	8×7	60	8×7	63
33	336	8×7	70	8×7	75		
47	476	8×7	80			Case Size	Allowable ripple

Allowable Ripple (mA rms) at 105°C 120Hz