

NM (CD11N)



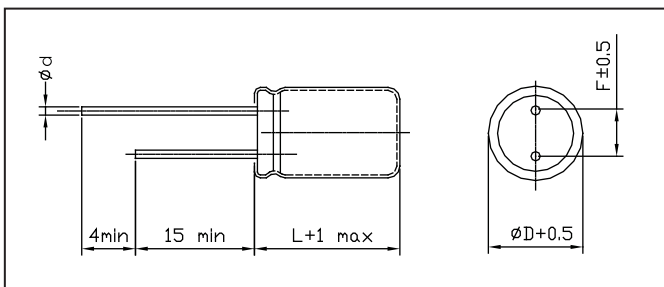
- ⊙ Be 5mm in height, Bi-polar.
- ⊙ Used in circuits what polarity is reversed, such as signal coupling, etc.
- ⊙ Adapted to the ROHS directive (2002/95/EC).

Specifications

Item	Performance Characteristics																					
Operating temperature range	-40°C ~ +85°C																					
Rated voltage range	6.3 ~ 50V																					
Nominal capacitance range	0.1 ~ 47μF																					
Capacitance tolerance	± 20% (120Hz, +20°C)																					
Leakage current	$I \leq 0.05CV$ or $10(\mu A)$ 2 (at 20°C, after 2 minutes) (whichever is greater)																					
Dissipation factor(+20°C, 120Hz) (tg δ)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tgδ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.15</td> <td>0.15</td> </tr> </table>	U_R (V)	6.3	10	16	25	35	50	tgδ	0.28	0.24	0.20	0.18	0.15	0.15							
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Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (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>	U_R (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
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Load life	rated voltage for 1000 hours at +85°C (with the polarity inverted every 250 hours) and then resumed 16 hours: Capacitance change : ±25% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 times Initial specified value																					
Shelf life	After storage for 1000 hours at +85°C and then resumed 16 hours Capacitance change : ±25% Initial measured value Leakage current : ≤ 2 times Initial specified value Dissipation factor : ≤ 2 times Initial specified value																					

Case size table

Unit: mm



D	4	5	6
F	1.5	2.0	2.5
d	0.45		

Dimensions

$C_R(\mu F)$	Code	U_R		6.3V		10V		16V		25V		35V		50V	
		0J	1A	1C	1E	1V	1H								
0.1	0R1													4x5	1.0
0.22	R22													4x5	2.0
0.33	R33													4x5	2.8
0.47	R47													4x5	4.0
1	010													4x5	8.4
2.2	2R2													4x5	13
3.3	3R3								5x5	12				5x5	17
4.7	4R7					4x5	12	5x5	16	4x5	18	5x5	20	5x5	20
10	100		4x5	17	5x5	23	6x5	27	5x5	29	6x5	33			
22	220	5x5	28	6x5	33	6x5	37			6x5	46				
33	330	6x5	37	6x5	41	6x5	49								
47	470	6x5	45												

Rated ripple current(mA, +85°C, 120Hz)