

# RN 105°C (CD264)

- Long Load life of 105°C 2000h
- Body diameter of  $\Phi 8 \times 35$  to  $\Phi 12.5 \times 60$
- Used in super thin TV. with high ripple current capability.
- Adapted to the ROHS directive.

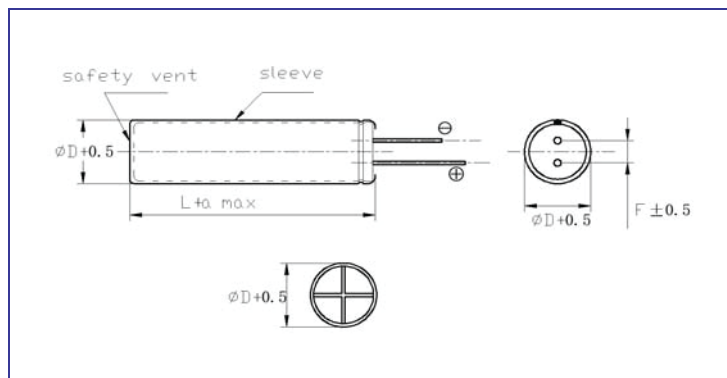


## Specifications

Item	Performance Characteristics														
Operating temperature range	-25~ +105°C														
Rated voltage range	160 ~450V														
Nominal capacitance range	22~330µF														
Capacitance tolerance	± 20% (120Hz, +20°C)														
Leakage current	$I \leq 0.02CV + 15$ (µA) (at 20°C, after 5 minutes)														
Dissipation factor ( $\text{tg} \delta$ ) (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th><math>U_R</math> (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> <th>420</th> <th>450</th> </tr> </thead> <tbody> <tr> <td><math>\text{tg} \delta</math></td> <td>0.18</td> <td>0.18</td> <td>0.18</td> <td>0.20</td> <td>0.22</td> <td>0.24</td> </tr> </tbody> </table>	$U_R$ (V)	160	200	250	400	420	450	$\text{tg} \delta$	0.18	0.18	0.18	0.20	0.22	0.24
$U_R$ (V)	160	200	250	400	420	450									
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Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th><math>U_R</math> (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> <th>420</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>4</td> <td>5</td> <td>6</td> <td>6</td> <td>6</td> </tr> </tbody> </table>	$U_R$ (V)	160	200	250	400	420	450	Z-25°C / Z+20°C	4	4	5	6	6	6
$U_R$ (V)	160	200	250	400	420	450									
Z-25°C / Z+20°C	4	4	5	6	6	6									
Load life	After applying rated voltage for Load life of 2000h , at +105°C and then resumed 16 hours: Capacitance change : ±20% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 times specified value														
Shelf life	After storage for 1000 hours at +105°C and then resumed 16 hours Capacitance change : ±20% Initial measured value Leakage current : ≤ 2 times Initial specified value Dissipation factor : ≤ 2 times Initial specified value														

## Case size table

Unit: mm



D	8	10	12.5
F	3.5	5.0	
d	0.6		
α MAX	2.0		

## DIMENSIONS

$C_R(\mu F)$	Code	160V		200V		250V		400		420V		450V	
		2C		2D		2E		2G		2M		2W	
22	220							8x40	230	8x45	240	8x50	260
27	270							8x50	270	10x35	270	10x40	290
33	330					8x35	240	10x35	300	10x40	310	10x45	330
39	220					8x40	250	10x40	340	10x45	360	10x50	400
47	470					8x45	310	10x50	430	10x50	440	12.5x40	450
56	560	8x35	265	8x45	290	8x50	340	12.5x35	480	12.5x45	510	12.5x45	510
68	680	8x40	340	8x50	360	10x40	390	12.5x40	540	12.5x50	600	12.5x50	600
82	820	8x45	400	10x40	420	10x45	450	12.5x50	620	12.5x55	650	12.5x55	650
100	101	8x50	480	10x45	500	10x50	540	12.5x55	730	12.5x60	760	12.5x60	760
120	121	10x40	530	10x50	580	12.5x40	610						
150	151	10x50	660	12.5x45	720	12.5x50	750						
180	181	12.5x40	760	12.5x50	800	12.5x55	850						
220	221	12.5x45	850	12.5x55	900								
270	271	12.5x50	980	12.5x60	1050								
330	331	12.5x55	1130										

└─── Rated ripple current(mA,+105°C,120Hz)

\* Note : If you want to use the other capacitance & working voltage types in your circuit. Please consult our technical department.

### ■ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency(Hz)	60	120	300	1k	10k	100k $\leq$
Coefficient	0.75	1.00	1.25	1.35	1.50	1.50