

NB (CD71)



◎ Bi-polarized Standard series, used in polarity reverse and change circuits.

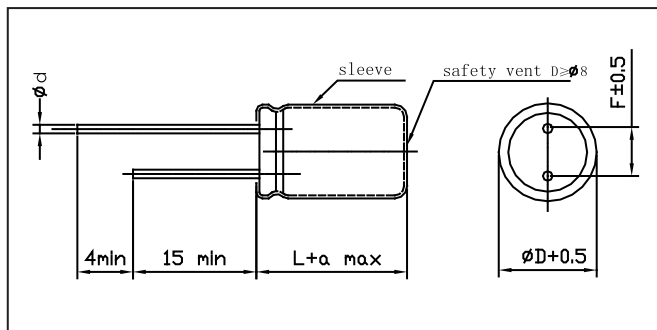
◎ Adapted to the ROHS directive (2002/95/EC).

Specifications

Item	Performance Characteristics																														
Operating temperature range	-40 °C~ +85°C																														
Rated voltage range	6.3 ~ 160 V																														
Nominal capacitance range	0.47~ 6800 μ F																														
Capacitance tolerance	$\pm 20\%$ (120Hz, +20°C)																														
Leakage current	$I \leq 0.03CV + 3(\mu A) 2$ (at 20°C, after 2 minutes)																														
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> <td>63</td> <td>100</td> <td>160</td> </tr> <tr> <td>tg δ</td> <td>0.28</td> <td>0.24</td> <td>0.22</td> <td>0.20</td> <td>0.15</td> <td>0.14</td> <td>0.10</td> <td>0.09</td> <td>0.15</td> </tr> </table>	U_R (V)	6.3	10	16	25	35	50	63	100	160	tg δ	0.28	0.24	0.22	0.20	0.15	0.14	0.10	0.09	0.15										
	U_R (V)	6.3	10	16	25	35	50	63	100	160																					
tg δ	0.28	0.24	0.22	0.20	0.15	0.14	0.10	0.09	0.15																						
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> <td>63</td> <td>100</td> <td>160</td> </tr> <tr> <td>Z-25°C/+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>Z-40°C/+20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	U_R (V)	6.3	10	16	25	35	50	63	100	160	Z-25°C/+20°C	4	3	2	2	2	2	2	2	4	Z-40°C/+20°C	10	8	6	5	4	4	3	3	
	U_R (V)	6.3	10	16	25	35	50	63	100	160																					
	Z-25°C/+20°C	4	3	2	2	2	2	2	2	4																					
Z-40°C/+20°C	10	8	6	5	4	4	3	3																							
Load life	After applying rated voltage for 1000 hours at +85°C (with the polarity inverted every 250 hours) and then resumed 16 hours: Capacitance change : $\pm 20\%$ Initial measured value Leakage current : \leq 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 : $\pm 20\%$ Initial measured value Leakage current : ≤ 2 times Initial specified value Dissipation factor : ≤ 2 times Initial specified value																														

Case size table

Unit: mm



D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α MAX	(L < 20)	1.5
	(L \geq 20)	2.0

■ Dimensions

ØD × L(mm)

U _R		6.3V		10V		16V		25V		35V	
		0J		1A		1C		1E		1V	
C _R (µF)	Code										
0.47	R47										
1.0	010										
2.2	2R2										
3.3	3R3										
4.7	4R7									5×11	34
10	100					5×11	47	5×11	42	5×11	43
22	220			5×11	57	5×11	57	6.3×11	65	6.3×11	73
33	330	5×11	64	5×11	64	5×11	40	6.3×11	80	8×12	100
47	470	5×11	76	5×11	76	6.3×11	95	6.3×11	95	8×12	120
100	101	6.3×11	125	6.3×11	125	8×12	160	8×12	160	10×16	230
220	221	8×12	215	8×12	215	10×13	275	10×16	305	13×20	410
330	331	8×12	265	10×16	345	10×16	375	13×20	450	13×20	505
470	471	10×13	370	10×16	410	10×20	485	13×20	540	13×25	655
1000	102	10×20	650	13×20	720	16×25	855	16×25	950	16×30	1140
2200	222	13×25	1160	16×25	1280	16×30	1510	18(19)×35	1620		
3300	332	16×25	1570	16×30	1690	18(19)×35	1980				
4700	472	16×30	2020	18(19)×35	2160						
6800	682	18(19)×35	2600								

ØD × L(mm)

U _R		50V		63V		100		160	
		1H		1J		2A		2B	
C _R (µF)	Code								
0.47	R47	5×11	11			5×11	14		
1.0	010	5×11	17			5×11	21		
2.2	2R2	5×11	25			6.3×11	34		
3.3	3R3	5×11	27	5×11	28	6.3×11	39	10×16	49
4.7	4R7	5×11	34	6.3×11	34	6.3×11	47	10×16	59
10	100	6.3×11	52	6.3×11	57	8×12	71	13×20	109
22	220	8×12	89	8×12	95	10×16	135	13×25	177
33	330	8×12	105	10×13	135	13×20	220	16×25	240
47	470	10×13	150	10×16	180	13×20	240	16×35	329
100	101	10×20	265	13×20	320	16×25	425	18(19)×35	425
220	221	13×25	480	16×25	575	18(19)×35	720		
330	331	16×25	650	16×30	655				
470	471	16×30	835	18(19)×35	965				

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