常州华威电子有限公司
CHANGZHOU HUA WEI ELECTRONICS CO.,LTD.

FB 105℃ (CD71H)

◎ Bi-polar 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~ +105°C
Rated voltage range	6.3 ~ 100 V
Nominal capacitance range	0.47~ 6800μF
Capacitance tolerance	± 20% (120Hz, +20°C)
Leakage current	I ≤ 0.03CV +3(μA) (at 20°C,after 2 minutes)
(tg δ) Dissipation factor (+20°C, 120Hz)	

U_R (V)	6.3	10	16	25	35	50	63	100
tg δ	0.28	0.24	0.22	0.20	0.15	0.14	0.10	0.09

Temperature characteristics (Impedance ratio at 120Hz)

U_R (V)	6.3	10	16	25	35	50	63	100
Z-25°C／+20°C	4	3	2	2	2	2	2	2
Z-40°C／+20°C	10	8	6	5	4	4	3	3

Load life

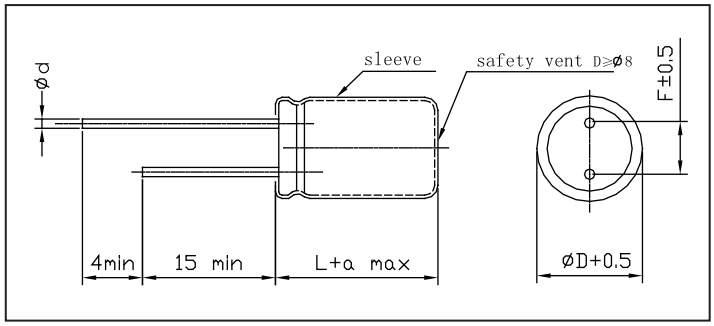
After applying rated voltage for1000 hours at 105°C(with the polarity inverted every 250 hours) and then resumed 16 hours:
Capacitance change : ±20% Initial measured value
Leakage current : ≤ Initial specified value
Dissipation factor : ≤ 2 times Initial specified value

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	5	6.3	8	10	13	16	18(19)
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5		0.5	0.6		0.8	

α MAX	（L<20） 1.5
	（L≥20） 2.0

Bi-polar

Dimensions

ØD × L(mm)

C_R(μF) \ U_R	Code	6.3V		10V		16V		25V		35V	
		0J		1A		1C		1E		1V	
0.47	R47										
1.0	010										
2.2	2R2										
3.3	3R3										
4.7	4R7									5x11	34
10	100					5x11	47	5x11	42	5x11	43
22	220			5x11	57	5x11	57	6.3x11	65	6.3x11	73
33	330	5x11	64	5x11	64	5x11	40	6.3x11	80	8x12	100
47	470	5x11	76	5x11	76	6.3x11	95	6.3x11	95	8x12	120
100	101	6.3x11	125	6.3x11	125	8x12	160	8x12	160	10x16	230
220	221	8x12	215	8x12	215	10x13	275	10x16	305	13x20	410
330	331	8x12	265	10x16	345	10x16	375	13x20	450	13x20	505
470	471	10x13	370	10x16	410	10x20	485	13x20	540	13x25	655
1000	102	10x20	650	13x20	720	16x25	855	16x25	950	16x30	1140
2200	222	13x25	1160	16x25	1280	16x30	1510	18(19)x35	1620		
3300	332	16x25	1570	16x30	1690	18(19)x35	1980				
4700	472	16x30	2020	18(19)x35	2160						
6800	682	18(19)x35	2600								

Bi-polar

ØD × L(mm)

C_R (μF) \ U_R	Code	50V		63V		100	
		1H		1J		2A	
0.47	R47	5x11	11			5x11	14
1.0	010	5x11	17			5x11	21
2.2	2R2	5x11	25			6.3x11	34
3.3	3R3	5x11	27	5x11	28	6.3x11	39
4.7	4R7	5x11	34	6.3x11	34	6.3x11	47
10	100	6.3x11	52	6.3x11	57	8x12	71
22	220	8x12	89	8x12	95	10x16	135
33	330	8x12	105	10x13	135	13x20	220
47	470	10x13	150	10x16	180	13x20	240
100	101	10x20	265	13x20	320	16x25	425
220	221	13x25	480	16x25	575	18(19)x35	720
330	331	16x25	650	16x30	655		
470	471	16x30	835	18(19)x35	965		

Rated ripple current(mA,+105°C,120Hz)