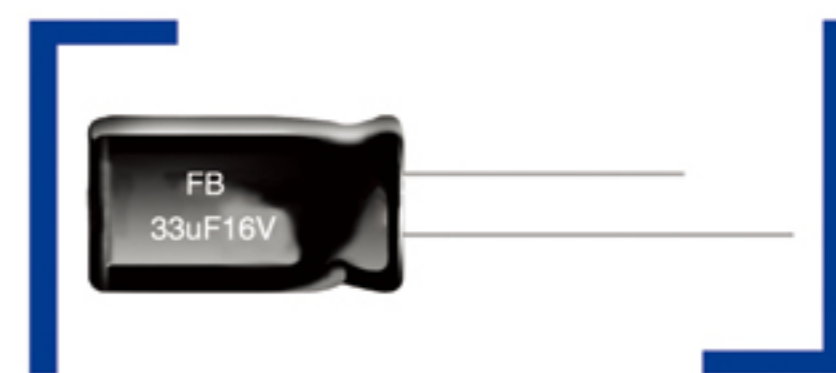


# FB

105°C 双极性标准品



◎ 双极性，标准品，用于极性翻转或极性变换的电路中。

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

◎ ROHS指令已对应完毕。Adapted to the ROHS directive.

## ■ 主要技术性能 Specifications

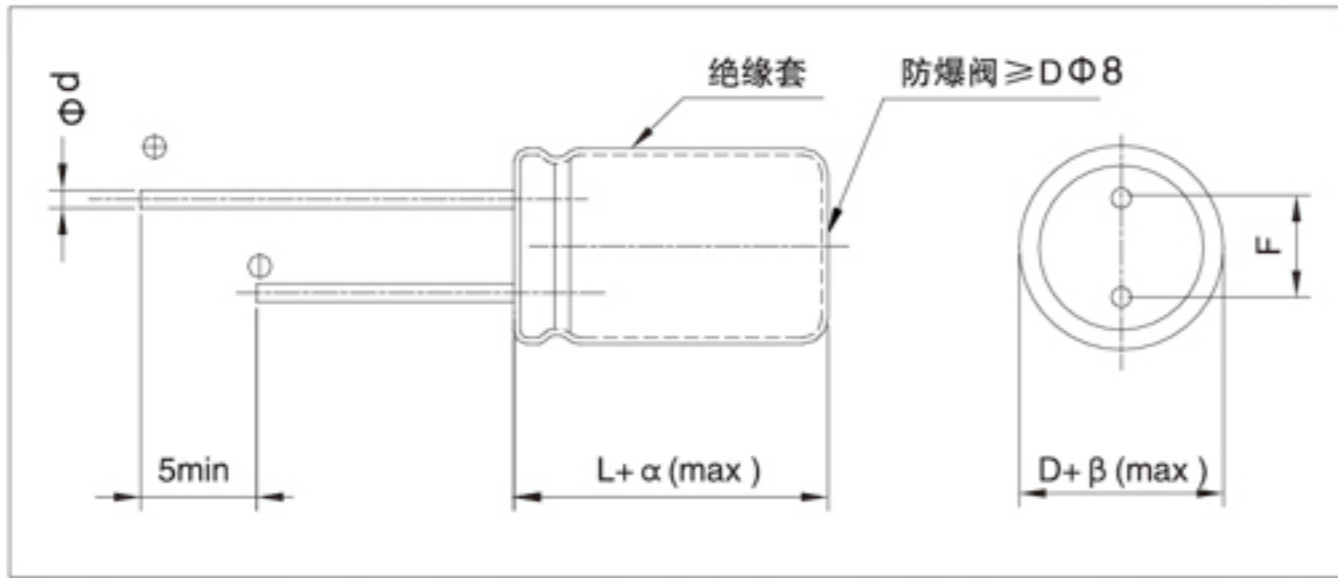
项目 Item	特性 Performance Characteristics																											
使用温度范围 Operating temperature range	-40 ~ +105°C																											
额定电压范围 Rated voltage range	6.3 ~ 100 V																											
标称容量范围 Nominal capacitance range	0.47 ~ 4700 μF																											
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)																											
正反向漏电流 Leakage current	$I \leq 0.03CV + 3(\mu A)$ 2分钟 (at 20°C, after 2 minutes)																											
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th>U<sub>R</sub> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <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> </tr> </tbody> </table>	U <sub>R</sub> (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									
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耐久性 Load life	105°C加额定电压2000小时 (每250小时反转极性一次) 恢复16小时后: After applying rated voltage for 2000 hours at 105°C (with the polarity inverted every 250 hours) and then resumed 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 Initial measured value 漏 电 流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2 times of the Initial specified value																											
高温贮存 Shelf life	+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C and then resumed 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 Initial measured value 漏 电 流 Leakage current : ≤2倍初始规定值 2 times of the Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2 times of the Initial specified value																											

## ■ 频率修正系数 Frequency coefficient

CAP(μF) \ F(Hz)	60	120	1K	≥10k
0.47 ~ 68	0.8	1	1.45	1.7
100 ~ 470	0.8	1	1.35	1.5
680 ~ 4700	0.8	1	1.2	1.3

■ 外形图及尺寸表 Case size table

单位Unit: mm



D	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5		0.5, 0.6	0.6		0.8	

α MAX	(L < 20) 1.5	β MAX	(D < 20) 0.5
	(L ≥ 20) 2.0		(D ≥ 20) 1.0

■ 尺寸 Dimensions

CAP(μF) \ WV		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7	4R7									5x11	34
10	100					5x11	38	5x11	42	5x11	43
22	220			5x11	48	5x11	55	6.3x11	65	6.3x11	73
33	330	5x11	58	5x11	60	5x11	64	6.3x11	80	8x11.5	100
47	470	5x11	76	5x11	76	6.3x11	95	6.3x11	95	8x11.5	120
100	101	5x11	100	6.3x11	125	6.3x11	130	8x11.5	160	10x12.5	200
220	221	8x11.5	155	8x11.5	160	8x11.5	205	10x12.5	255	10x20	325
330	331	8x11.5	205	8x11.5	215	10x12.5	260	10x16	320	12.5x20	380
470	471	10x12.5	280	10x12.5	310	10x16	365	12.5x20	435	12.5x25	520
1000	102	10x16	360	10x20	445	12.5x20	535	12.5x25	580	16x25	780
2200	222	12.5x20	680	16x25	885	16x30	1050				
3300	332	16x25	1050	16x30	1150						
4700	472	16x30	1250								

CAP(μF) \ WV		50V(1H)		63V(1J)		100V(2A)	
		Size	Ripple	Size	Ripple	Size	Ripple
0.47	R47	5x11	8	5x11	9	5x11	10
1.0	010	5x11	12	5x11	15	5x11	16
2.2	2R2	5x11	18	5x11	22	6.3x11	24
3.3	3R3	5x11	27	5x11	28	6.3x11	30
4.7	4R7	5x11	34	6.3x11	34	6.3x11	35
10	10	5x11	34	6.3x11	57	8x11.5	71
		6.3x11	52				
22	220	8x11.5	89	8x11.5	95	10x16	135
33	330	8x11.5	105	10x12.5	135	10x20	185
47	470	10x12.5	150	10x16	180	12.5x20	200
100	101	10x16	205	12.5x20	320	16x25	425
220	221	12.5x20	360	12.5x25	430	16x35	520
330	331	16x25	550	16x30	580		
470	471	16x30	580	18x35	760		

Size φD×L(mm)

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