

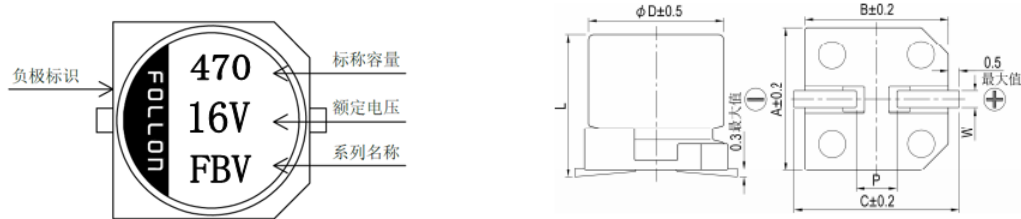
- 105°C 10000hours assured
- 105°C 10000小时寿命保证
- Low ESR and High ripple current
- 低等效串联电阻(ESR)并可承受高纹波电流
- RoHS compliance 符合RoHS指令



## Specifications 特性表

Items 项目	Characteristics 主要特性																					
Operation Temperature Range 使用温度范围	-55°C~105°C																					
Voltage Range 额定电压范围	16~80V																					
Capacitance Range 额定容量范围	22~470																					
Capacitance Tolerance 额定容量容许误差值	±20% at 120Hz, 20°C																					
Dissipation Factor (Tanδ) 损失角	Standard Ratings 标准品一览表																					
Leakage Current 漏电流	I=0.01CV or 3(μA) whichever is greater (after 2 minutes) Where, C=rated capacitance in μF, V=rated DC working voltage in V I = 0.01CV或3(μA/微安)之中任一个较大值以下(2分钟后) I = 漏电流(μA/微安)、C = 额定静电容量(μF/微法拉)、V = 额定直流工作电压(V/伏特)																					
Stability at Low Temperature (at 120Hz) 低温特性	Impedance ratio shall not exceed the values given in the table below 阻抗比不可大于下表所列数值 <table border="1"> <tr> <td>Rated Voltage</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> </tr> <tr> <td>Impedance ratio</td> <td>Z(-25°C)/Z(20°C)</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td></td> <td>Z(-55°C)/Z(20°C)</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> </tr> </table>	Rated Voltage	16	25	35	50	63	80	Impedance ratio	Z(-25°C)/Z(20°C)	1.5	1.5	1.5	1.5	1.5		Z(-55°C)/Z(20°C)	2.0	2.0	2.0	2.0	2.0
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Endurance 耐久性	After 10000Hrs. Application of the rated voltage at 105°C, returned to 20°C for testing, they meet the characteristics listed below. 在105°C下连续施加额定电压10000小时后, 返回20°C进行测试时, 满足以下项目 <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±30% of initial value ≤初始值的±30%</td> </tr> <tr> <td>Tanδ 损失角</td> <td>Less than 200% of specified value ≤初始值的200%</td> </tr> <tr> <td>ESR 等效串联电阻</td> <td>Less than 200% of specified value ≤初始值的200%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>Within specified value ≤初始规格值</td> </tr> </table>	Capacitance Change 静电容量变化率	Within ±30% of initial value ≤初始值的±30%	Tanδ 损失角	Less than 200% of specified value ≤初始值的200%	ESR 等效串联电阻	Less than 200% of specified value ≤初始值的200%	Leakage Current 漏电流	Within specified value ≤初始规格值													
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Shelf Life Test 高温储存特性	After storage for 1000Hrs at 105°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment) 于 105°C环境中不供给额定电压 1000 小时后, 待制品回复至 20°C 的环境中进行量测时, 需满足同耐久性试验要求(可进行电压补偿后再行量测).																					
Resistance to Soldering Heat 焊锡耐热性	After reflow soldering and restored at room temperature, they meet the characteristics listed below. 经过回流焊并冷却至室温后, 电容器的特性符合下表的要求. <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±10% of initial value ≤初始值的±10%</td> </tr> <tr> <td>Tanδ 损失角</td> <td>Less than 100% of specified value ≤初始值的100%</td> </tr> <tr> <td>ESR 等效串联电阻</td> <td>Less than 100% of specified value ≤初始值的100%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>Within specified value ≤初始规格值</td> </tr> </table>	Capacitance Change 静电容量变化率	Within ±10% of initial value ≤初始值的±10%	Tanδ 损失角	Less than 100% of specified value ≤初始值的100%	ESR 等效串联电阻	Less than 100% of specified value ≤初始值的100%	Leakage Current 漏电流	Within specified value ≤初始规格值													
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Leakage Current 漏电流	Within specified value ≤初始规格值																					
Marking 标识	Blue print on the case top. 铝壳顶部蓝色印刷。																					

## DRAWING (Unit: mm) 外形图



## DIMENSIONS (Unit:mm) 尺寸表

单位: mm

尺寸	6.3X5.8	6.3X7.7	8X10	10X10	10X12.5
ΦD	6.3	6.3	8	10	10
L	5.8±0.3	7.7±0.3	10±0.5	10±0.5	12±0.5
A	6.6	6.6	8.3	10.3	10.3
B	6.6	6.6	8.3	10.3	10.3
C	7.2	7.2	9.0	11.0	11.0
P±0.2	2.0	2.0	3.1	4.6	4.6
W	0.5~0.8	0.5~0.8	0.7~1.1	0.7~1.3	0.7~1.3

## Specifications 标准品一览表

Rated Volt.(V)	Surge Voltage(V)	Capacitance(μF)	Size ΦDXL (mm)	Tanδ 120Hz, 20℃	LC(μA) 2minutes	ESR (mΩ) 20℃ 100KHZ	Rated R.C (mA/rms at 100KHz,105℃)
16V(1C)	18.4	82	6.3X5.8	0.16	13.1	50	1,300
		150	6.3X7.7	0.16	24	30	2,000
		270	8X10	0.16	43.2	27	2,300
		470	10X10	0.16	75.2	20	2,500
25V(1E)	28.8	47	6.3X5.8	0.14	11.8	50	1,300
		56	6.3X5.8	0.14	14	50	1,300
		68	6.3X7.7	0.14	17	30	2,000
		100	6.3X7.7	0.14	25	30	2,000
		150	8X10	0.14	37.5	27	2,300
		220	8X10	0.14	55	27	2,300
		330	10X10	0.14	82.5	20	2,500
		10X12.5	0.14	82.5	16	2,900	
35V(1V)	40.3	27	6.3X5.8	0.12	9.5	60	1,300
		33	6.3X5.8	0.12	11.6	60	1,300
		47	6.3X5.8	0.12	16.5	60	1,300
		68	6.3X7.7	0.12	23.8	35	2,000
		100	8X10	0.12	35	27	2,300
		150	8X10	0.12	52.5	27	2,300
		220	10X10	0.12	77	20	2,300
		270	10X10	0.12	94.5	20	2,300
50V(1H)	57.5	22	6.3X5.8	0.10	11	80	1,100
		33	6.3X7.7	0.10	16.5	40	1,600
		47	8X10	0.10	23.5	30	1,800
		68	8X10	0.12	34	30	1,800
		100	10X10	0.10	50	28	2,000
63V(1J)	72.5	10	6.3X5.8	0.08	6.3	120	1,000
		22	6.3X7.7	0.08	13.9	80	1,500
		27	8X10	0.08	17	40	1,700
		33	8X10	0.08	20.8	40	1,700
		47	8X10	0.08	29.6	40	1,700
		56	10X10	0.08	35.3	30	1,800
		68	10X10	0.08	42.8	30	1,800
		82	10X10	0.08	51.7	30	1,800
80V(1K)	92.0	22	8X10	0.08	17.6	45	1,550
		33	10X10	0.08	26.4	36	1,700
		47	10X10	0.08	37.6	36	1,700

●Case size ΦD XL(mm), ripple current (mA rms) at 105℃, 100KHz ●尺寸ΦD XL(mm), 纹波电流 (mA rms) 于105℃, 100KHz

### □Ripple Current and Frequency Multipliers 纹波电流与频率修正系数

Frequency 频率	120HZ	1KHZ	10KHZ	100KHZ~
Multipliers 修正系数	0.1	0.30	0.60	1.00

- Taping specifications are given in page 15" Taping Specifications" . 编带标准请参阅第15页" 编带标准 "
- Please refer to page 16" Package Quantity" for the minimum package quantity.最小包装数量请参阅第16页" 包装数量 "

# S Series **FBV Series**

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immediately for technical assistance before purchase

注：以上所提供的设计及特性参数谨供参考，任何修改不作预先通知。如果在使用上有疑问，请在采购前与我们联系，以便提供技术上的协助。