FBU Series

- 125℃ 4000hours assured
  125℃ 4000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℃~125℃
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℃
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

Rated Voltge 电压(V)		16	25	35	50	63	80
Impedance ratio	Z(-25℃)/Z(20℃)	1.5	1.5	1.5	1.5	1.5	1.5
	Z(-55℃)/Z(20℃)	2.0	2.0	2.0	2.0	2.0	2.0

Endurance 耐久性

After 4000Hrs. Application of the rated voltage at 125 ℃ ,returned to 20 ℃ for testing, they meet the characteristics listed below.
在125℃ 下连续施加额定电压4000小时后，返回20℃进行测试时，满足以下项目

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

Shelf Life Test 高温储存特性

After storage for 1000Hrs at 105℃ with no voltage applied and then being stabilized at 20℃,capacitors shall meet the limits specified in Endurance.(With voltage treatment)
于 125℃环境中不供给额定电压 1000 小时后，待制品回复至 20℃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).

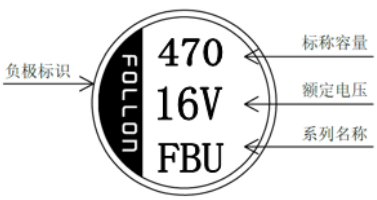
Resistance to Soldering Heat焊锡耐热性

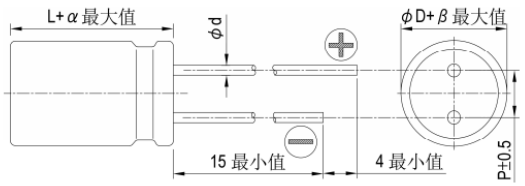
After reflow soldering and restored at room temperature,they meet the characteristics listed below.
经过回流焊并冷却至室温后，电容器的特性符合下表的要求.

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

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	6.3X6	6.3X8	8X10	10X10	10X12
ΦD	6.3	6.3	8	10	10
L	6	8	10	10	12
P	2.5	2.5	3.5	5.0	5.0
Φd	0.45	0.45	0.60	0.60	0.60
α	1.0	1.0	1.0	1.0	1.0
β	0.5	0.5	0.5	0.5	0.5

FBU Series

Speifications 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,125℃)
16V(1C)	18.4	82	6.3X6	0.16	13.1	50	900
		150	6.3X8	0.16	24	30	1,400
		270	8X10	0.16	43.2	27	1,600
		470	10X10	0.16	75.2	20	2,000
25V(1E)	28.8	47	6.3X6	0.14	11.8	50	900
		56	6.3X6	0.14	14	50	900
		68	6.3X8	0.14	17	30	900
		100	6.3X8	0.14	25	30	1,400
		150	8X10	0.14	37.5	27	1,400
		220	8X10	0.14	55	27	1,600
		330	10X10	0.14	82.5	20	1,600
			10X12	0.14	82.5	16	2,000
35V(1V)	40.3	27	6.3X6	0.12	9.5	60	900
		33	6.3X6	0.12	11.6	60	900
		47	6.3X6	0.12	16.5	60	900
		68	6.3X8	0.12	23.8	35	1,400
		100	8X10	0.12	35	27	1,600
		150	8X10	0.12	52.5	27	1,600
		220	10X10	0.12	77	20	2,000
		270	10X10	0.12	94.5	20	2,000
50V(1H)	57.5	22	6.3X6	0.10	11	80	750
		33	6.3X8	0.10	16.5	40	1,100
		47	8X10	0.10	23.5	30	1,250
		68	8X10	0.12	34	30	1,250
		100	10X10	0.10	50	28	1,600
63V(1J)	72.5	10	6.3X5.8	0.08	6.3	120	1,600
		22	6.3X7.7	0.08	13.9	80	700
		27	8X10	0.08	17	40	900
		33	8X10	0.08	20.8	40	1,100
		47	8X10	0.08	29.6	40	1,100
		56	10X10	0.08	35.3	30	1,100
			10X12	0.08	35.3	26	1,500
		68	10X10	0.08	42.8	30	1,400
		82	10X10	0.08	51.7	30	1,400
80V(1K)	92.0	22	8X10	0.08	17.6	45	1,050
		33	10X10	0.08	26.4	36	1,360
		47	10X10	0.08	37.6	36	1,360

●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 纹波电流与频率补正系数

Frequeny 频率	120HZ	1KHZ	10KHZ	100KHZ~
Multipliers 补正系数	0.10	0.30	0.60	1.00

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before pu「chase
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.