

SHRINKING BODY

缩体品

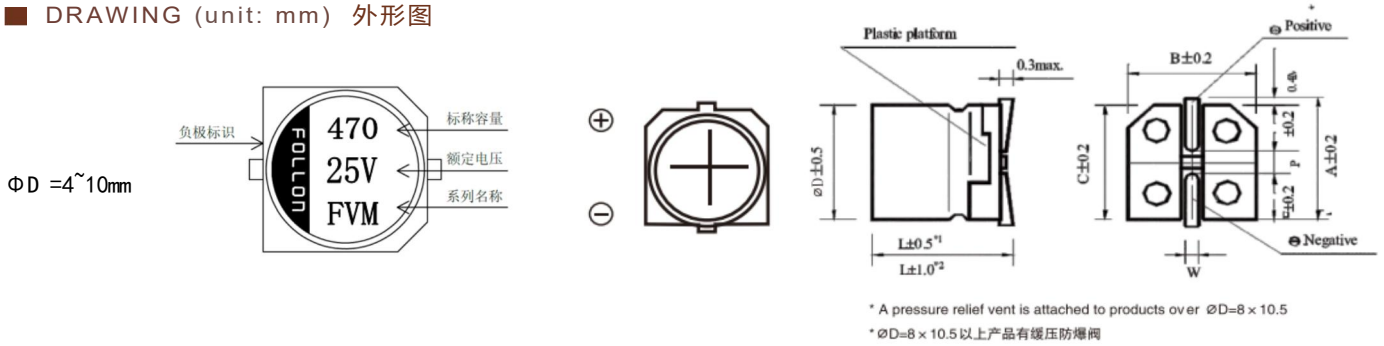
- 4Φ~10Φ, 105°C Guarantee of life 2,000Hrs
- 4Φ~10Φ, 105°C 2,000Hrs 寿命保证
- Smaller size than FVH series
- 比FVH 系列小尺寸产品
- High Density PCB design for surface adhesion
- 适用表面粘着之高密度PCB设计
- RoHS compliance
- 符合RoHS指令



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	6.3~50V																							
Capacitance Range 额定容量范围	10~1500																							
Capacitance Tolerance 额定容量容许误差值	±20% at 120Hz, 20°C																							
Leakage Current 漏电流	<table border="1"> <tr> <td>测定电压</td> <td>6.3~50V</td> </tr> <tr> <td>测试时间</td> <td>2分钟后</td> </tr> <tr> <td>漏电流</td> <td>I=0.01CV或3 μA, 取最大值</td> </tr> </table>	测定电压	6.3~50V	测试时间	2分钟后	漏电流	I=0.01CV或3 μA, 取最大值																	
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	测试时间	2分钟后																						
漏电流	I=0.01CV或3 μA, 取最大值																							
C=额定静电容量(μF微法拉) V=额定直流工作电压 (V/伏特)																								
Dissipation Factor (Tan δ) 损失角	<table border="1"> <tr> <td>Rated Voltage 额定电压 (V)</td> <td></td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">Tan δ (max) 损失角最大值</td> <td>Φ4~Φ10</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> <tr> <td>Φ12.5~Φ16</td> <td>0.35</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> </tr> </table>	Rated Voltage 额定电压 (V)		6.3	10	16	25	35	50	Tan δ (max) 损失角最大值	Φ4~Φ10	0.30	0.24	0.20	0.18	0.16	0.14	Φ12.5~Φ16	0.35	0.28	0.24	0.20	0.18	0.16
	Rated Voltage 额定电压 (V)		6.3	10	16	25	35	50																
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Φ12.5~Φ16		0.35	0.28	0.24	0.20	0.18	0.16																	
When the capacitance exceeds 1,000 μF, 0.02 shall be added every 1,000 μF increase. 当额定静电容量大于 1,000 微法拉时, 每增加 1,000 微法拉需加 0.02.																								
Stability at Low Temperature 低温特性 (at 120Hz)	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 Voltage 额定工作电压		6.3	10	16	25	35	50																
	Impedance ratio 阻抗比 ZT/Z20 (max)	Z(-25°C) /Z(20°C)	ΦD<12.5	4	4	3	2	2	2															
ΦD≥12.5			5	4	3	2	2	2																
	Z(-55°C) /Z(20°C)	ΦD<12.5	12	8	6	4	3	3																
		ΦD≥12.5	10	8	6	4	3	3																
Endurance 耐久性	保证寿命时间	Φ4~Φ5: 1,000小时 ΦD6.3*7.7~10: 2,000小时																						
	Capacitance Change 静电容量变化率	ΦD≤6.3mm: ≤初始值的±25% ΦD≥8mm: ≤初始值的±20%																						
	Tan δ 损失角	ΦD≤6.3mm: ≤初始值的300% ΦD≥8mm: ≤初始值的200%																						
	Leakage Current 漏电流	Within specified value ≤初始规格值																						
Shelf Life 高温储存特性	保证寿命时间: 1000小时, 其它测试项目同耐久性.																							
Coefficient of correction 纹波电流与频率修正系数	频率 (Hz)		50	120	1K	10K≤																		
	静电容量 (μF)																							
	≤1,000		0.80	1.00	1.25	1.40																		
1,000<静电容量≤8,200		0.85	1.00	1.15	1.25																			
Marking 标识	Black print on the case top. 铝壳顶部黑色印刷.																							

■ DRAWING (unit: mm) 外形图



□ DIMENSIONS (Unit:mm)尺寸表

单位: mm

DXL	4X5.8	5X4.5/5.8	6.3X4/4.5	6.3X5.8/7.7	8X6.5	8X10.5	10X10.5
A	4.3	5.3	6.6	6.6	8.3	8.3	10.3
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	5.1	6.0	7.2	7.2	9.2	9.2	11.2
P±0.2	1.0	1.5	2.0	2.0	2.3	3.1	4.6
L±0.2	5.8±0.3	4.5/5.8±0.3	4±0.1/4.5±0.3	5.8/7.7±0.3	6.5±0.3	10.5±0.5	10.5±0.5

Specifications 标准品一览表

额定电压 VDC		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
静电容量 (uF)		Φ DXL	mA	Φ DXL	mA	Φ DXL	mA	Φ DXL	mA	Φ DXL	mA	Φ DXL	mA
10	100	4x5.8	19	4x5.8	19	4x5.8	19	4x5.8	16	4x5.8	18	4x5.8	20
22	220	4x5.8	23	4x5.8	20	4x5.8	25	5x5.8	32	5x4.5 5x5.8	26 32	5x5.8	32
33	330	4x5.8	30	4x5.8	22	4x5.8	35	5x5.8	35	5x5.8	35	6.3x5.8	48
47	470	4x5.8	35	5x5.8	38	4x5.8	38	5x5.8	40	6.3x5.8	48	6.3x7.7	68
56	560	4x5.8	38	5x5.8	40	5x5.8	40	5x5.8	40	6.3x5.8	48	8x6.5	86
68	680	4x5.8	42	5x5.8	42	5x5.8	42	6.3x5.8	48	6.3x5.8	48	8x6.5	92
100	101	5x5.8	54	5x5.8	60	5x5.8 6.3x4.5	60 55	6.3x5.8 8x6.5	80 90	6.3x5.8 8x6.5	80 90	8x6.5 6.3x7.7	100 92
220	221	5x5.8	90	6.3x4.5 6.3x5.8	60 90	6.3x5.8	90	6.3x7.7	120	8x10.5	190	8x10.5	190
270	271	6.3x5.8	105	6.3x5.8	105	6.3x7.7	120	6.3x7.7	130	8x10.5	190		
330	331	6.3x7.7	120	6.3x7.7	120	6.3x7.7	120	6.3x7.7	140	10x10.5	310		
470	471	6.3x7.7	140	6.3x7.7	140	6.3x7.7	140	8x10.5	310				
560	561	6.3x7.7	165	8x10.5	20	8x10.5	280	10x10.5	380				
680	681	6.3x7.7	345	8x10.5	280	10x10.5	310	10*10.5	380				
1000	102	8x10.5	330	10x10.5	380	10x10.5	380	10*10.5	380				
1500	152	10x10.5	380	10x10.5	380								

●Case size $\Phi D \times L$ (mm), Impedance (Ω) at 20°C, 100KHZ, ripple current (mA rms) at 105°C, 120Hz

●尺寸 $\Phi D \times L$ (mm), 阻抗值(Ω)于20°C, 100KHZ纹波电流 (mA rms) 于105°C, 120Hz

□ The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise. When long life performance is required in actual use, the ripple current has to be reduced.

铝电解电容器由于在纹波电流叠加时自我发热, 温度上升而老化, 每升温10°C 寿命减少一半, 要想保持长寿命请在使用过程中降低纹波电流。

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