

NON-POLARIZED, STANDARD

无极性标准品

- Non-polarized with wide temperature range -40°C~+105°C
无极性和适用于 -40°C~+105°C 的常规温度范围
- Load life of 1000 hours
负荷寿命1000 小时
- Comply with the RoHS directive
符合 RoHS 指令

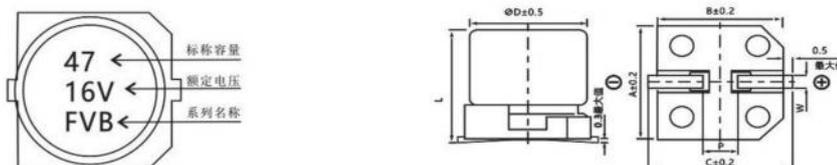


SPECIFICATIONS 特性表

Items 项目	Characteristics 主要特性																
Operation Temperature Range 使用温度范围	-40 ~ +105°C																
Voltage Range 额定工作电压范围	6.3 ~ 50V																
Capacitance Range 静电容量范围	0.1 ~ 47 μF																
Capacitance Tolerance 静电容量允许偏差	± 20% at 120Hz, 20°C																
Leakage Current 漏电流	Leakage current ≤ 0.05CV or 10 μA, whichever is greater (after 2 minutes application of rated voltage) 漏电流 ≤ 0.05CV 或 10 μA, 取较大值 (施加额定工作电压 2 分钟后)																
Dissipation Factor (tan δ) 损耗角正切	Measurement frequency 测试频率: 120Hz, Temperature 温度: 20°C																
	<table border="1"> <tr> <td>Rated Voltage (V) 额定工作电压</td> <td>6.3</td> <td>10</td> <td>16, 25</td> <td>35, 50</td> </tr> <tr> <td>tan δ (max.) 最大损耗角正切</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> </tr> </table>	Rated Voltage (V) 额定工作电压	6.3	10	16, 25	35, 50	tan δ (max.) 最大损耗角正切	0.24	0.20	0.18	0.16						
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Stability at Low Temperature 低温特性	Measurement frequency 测试频率: 120Hz																
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Load Life 高温负荷特性	After 1000 hours application of the rated voltage at 105°C (the polarity needs to exchange every 250 hours), they meet the characteristics listed below. 在 105°C 环境中施加额定工作电压 1000 小时 (每 250 小时必须转换一次极性) 后, 电容器的特性符合下表的要求。																
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Shelf Life 高温贮存特性	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above. 在 105°C 环境中无负荷放置 1000 小时后, 电容器的特性符合高温负荷特性中所列的规定值。																
Resistance to Soldering Heat 耐焊接热特性	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。																
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Marking 标识	Black print on the case top. 铝壳顶部黑字印刷。																

FVB | Chip Type 贴片式

DRAWING (Unit: mm) 外形图



DIMENSIONS (Unit: mm) 尺寸表

$\phi D \times L$	4 x 5.4	5 x 5.4	6.3 x 5.4
A	4.3	5.3	6.6
B	4.3	5.3	6.6
C	5.1	5.9	7.2
P ± 0.2	1.0	1.5	2.0
L	5.4 ± 0.3	5.4 ± 0.3	5.4 ± 0.3

□ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

μF	WV Code 代码	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4 × 5.4	1.0
0.22	R22											4 × 5.4	2.0
0.33	R33											4 × 5.4	2.8
0.47	R47											4 × 5.4	4.0
1	010											4 × 5.4	8.4
2.2	2R2									4 × 5.4	8.4	5 × 5.4	13
3.3	3R3							5 × 5.4	12	5 × 5.4	16	5 × 5.4	17
4.7	4R7					4 × 5.4	12	5 × 5.4	16	5 × 5.4	18	6.3 × 5.4	20
10	100			4 × 5.4	17	5 × 5.4	23	6.3 × 5.4	27	6.3 × 5.4	29		
22	220	5 × 5.4	28	6.3 × 5.4	33	6.3 × 5.4	37						
33	330	6.3 × 5.4	37	6.3 × 5.4	41	6.3 × 5.4	49						
47	470	6.3 × 5.4	45									Case size 尺寸	Ripple current 纹波电流

•Case size ∅D×L(mm), ripple current (mA rms) at 105°C, 120Hz •尺寸∅D×L(mm), 纹波电流(mA rms)于105°C, 120Hz

□ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 纹波电流频率补偿系数

Frequency 频率	50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系数	0.70	1.00	1.17	1.36	1.50

- 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 rms 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。