

# KF 宽温度品

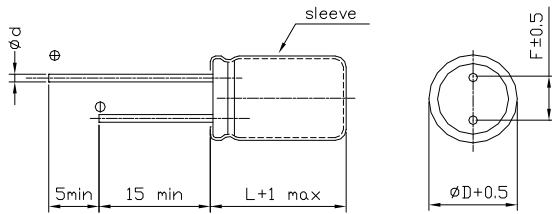
- 5mm 高度, 105°C。5mmL, 105°C
- 适用于移动通讯、袖珍对讲机、汽车音响等电路  
Used in locomotive communication, pocked intercom telephone and car audio circuits, etc.
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

## 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	4 ~ 50V																								
标称容量范围 Nominal capacitance range	0.1 ~ 220μF																								
标称容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																								
漏电流 Leakage current	$I \leq 0.01CV$ or $3(\mu A)$ 2分钟(at 20°C, after 2 minutes) 取最大者 (whichever is greater)																								
损耗角正切值 ( $\text{tg } \delta$ ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <tr> <th><math>U_R</math> (V)</th> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th><math>\text{tg } \delta</math></th> <td>0.35</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	$U_R$ (V)	4	6.3	10	16	25	35	50	$\text{tg } \delta$	0.35	0.24	0.20	0.16	0.14	0.12	0.10								
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温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <th><math>U_R</math> (V)</th> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th>Z-25°C / Z+20°C</th> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <th>Z-40°C / Z+20°C</th> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	$U_R$ (V)	4	6.3	10	16	25	35	50	Z-25°C / Z+20°C	7	4	3	2	2	2	2	Z-40°C / Z+20°C	15	10	8	6	4	3	3
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耐久性 Load life	+105°C加额定电压 1000 小时, 恢复 16 小时后: After applying rated voltage for 1000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25%of the initial measured value (4V:≤±30%) 漏 电 流 Leakage current : ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times 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 for 16 hours 电容量变化率 Capacitance change : ±25%初始测量值以内 ±25%of the initial measured value (4V:≤±30%) 漏 电 流 Leakage current : ≤2 倍初始规定值 ≤2times of initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times of initial specified value																								

## 外形图及尺寸表 Case size table

单位Unit: mm



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45			

## 频率修正系数 Frequency coefficient

F(Hz) \ CAP(μF)	60	120	1K	≥10k
0.1~68	0.8	1	1.3	1.5
100~220	0.8	1	1.15	1.2

## 尺寸 DIMENSIONS

CAP(μF)	WV	4V(0G)		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	0R1													4×5	1.0
0.22	R22													4×5	2.6
0.33	R33													4×5	3.2
0.47	R47													4×5	3.8
1	010													4×5	6.2
2.2	2R2													4×5	11
3.3	3R3													4×5	14
4.7	4R7									4×5	13	4×5	15	5×5	19
10	100			4×5	13	4×5	15	4×5	18	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48	8×5	60
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48				
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50	6.3×5	55				
100	101	6.3×5	60	6.3×5	60	6.3×5	65	6.3×5	75	8×5	80				
220	221	8×5	100	8×5	110	8×5	120								

Size  $\phi D \times L$ (mm)

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

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