Zkhycon®
中科华源

HKF 系列 Series

特点 Features

- 5mm高度，105℃。5mmL, 105℃ .
- 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.

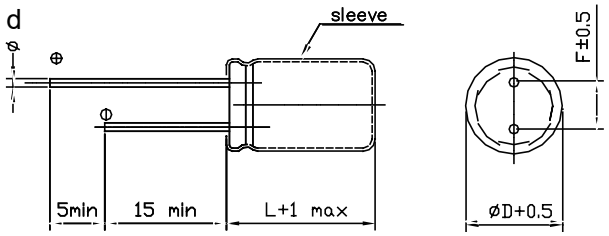
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics
使用温度范围 Operating Temperature Range	-40~+105℃
额定电压范围 Rated Voltage Range	4~50V
标称电容量范围 Nominal Capacitance Range	0.1~220μF
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20℃)
漏电流 Leakage Current	I ≤0.01CV or 3(μA) 2分钟(at 20℃, after 2 minutes) 取最大者(whichever is greater)
损耗角正切值 (tgδ) Dissipation Factor (+20℃, 120Hz)	U_R (V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 tgδ: 0.35 / 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10
温度特性Temperature Characteristics (Impedance ratio at 120Hz)	U_R (V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 Z-25℃ / Z+20℃: 7 / 4 / 3 / 2 / 2 / 2 / 2 Z-40℃ / Z+20℃: 15 / 10 / 8 / 6 / 4 / 3 / 3
耐久性 Load Life	+105℃加额定电压1000小时，恢复16小时后: After applying reted voltage for 1000 hours at +105℃ 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℃，1000小时贮存后，恢复16小时后: After storage for 1000 hours at +105℃ 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 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

频率修正系数 Frequency Coefficient

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

外形图及尺寸表 CasesSizizeetblele



单位 Unit: mm

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

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 φD×L(mm)
Maximum Allowable Ripple Current (mA rms) at 105℃ 120Hz