

KF Series

5mmL(高), +105°C

FEATURES

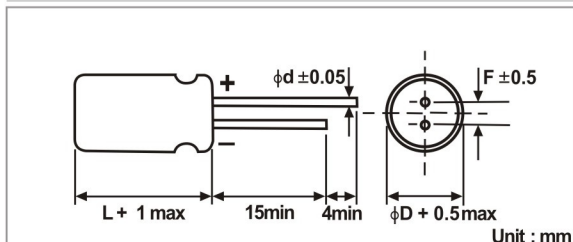
1. Super miniature, 5mmL, high temperature, suitable for use in electronic circuit of high density assembly of videocorder, remote controller, VCD etc.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	4 to 50V								
Nominal Capacitance Range	0.1 to 330μF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	I ≤ 0.01CV or 3(μA) whichever is greater measured after 2 minutes application of rated working voltage at +20 C								
tan δ (120Hz, +20°C)	Working Voltage (V)	4	6.3	10	16	25	35	50	
	tan δ (max.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12	
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	4	6.3	10	16	25	35	50	
	Z-25°C / Z+20°C	6	3	3	2	2	2	2	
	Z-40°C / Z+20°C	12	8	5	4	3	3	3	
High Temperature Loading	Test conditions				Post test requirements at +20°C				
	Duration : 1000 hours	Ambient temp. : +105°C			Applied voltage : Rated DC working voltage with rated ripple current			Leakage current : ≤ Initial specified value	Cap. change : within ±20% of initial measured value (4V: within ±30%)
Shelf Life	Test conditions				Post test requirements at +20°C				
	Duration : 1000 hours	Ambient temp. : +105°C			Applied voltage : (None)			Leakage current : ≤ Initial specified value	Cap. change : within ±20% of initial measured value (4V: within ±30%)
Others	JIS C - 5101 (IEC 60384)								

CASE SIZE TABLE



φD	4	5	6.3	8
F	1.5	2.0	2.5	2.5
φd	0.45			

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient						
Cap(μF)	Coefficient	50	120	300	1k	10k~
≤ 47		0.75	1.00	1.35	1.57	2.00
68~330		0.80	1.00	1.23	1.34	1.50

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STANDARD RATINGS

Voltage (Code)		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104								
0.22	224								
0.33	334								
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475								
10	106							4 x 5	18
22	226	4 x 5	22	4 x 5	22	4 x 5	24	5 x 5	30
33	336	5 x 5	30	5 x 5	30	5 x 5	35	6.3 x 5	40
47	476	5 x 5	36	5 x 5	36	6.3 x 5	46	6.3 x 5	50
100	107	6.3 x 5	60	6.3 x 5	60	6.3 x 5	67	6.3 x 5	73
220	227			8 x 5	103	8 x 5	116	8 x 5	126
330	337			8 x 5	127				

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

Case Size φD x L(mm)

Voltage (Code)		25V (1E)		35V (1V)		50V (1H)			
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
0.1	104					4 x 5	1.0		
0.22	224					4 x 5	2.6		
0.33	334					4 x 5	3.2		
0.47	474					4 x 5	3.8		
1	105					4 x 5	6.2		
2.2	225			4 x 5	7	4 x 5	11		
3.3	335			5 x 5	11	4 x 5	14		
4.7	475	4 x 5	13	4 x 5	15	5 x 5	19		
10	106	5 x 5	20	5 x 5	25	6.3 x 5	30		
22	226	6.3 x 5	38	6.3 x 5	48	8 x 5	52		
33	336	6.3 x 5	48	6.3 x 5	59	8 x 5	63		
47	476	6.3 x 5	58	8 x 5	82				
100	107	8 x 5	97						

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

Case Size φD x L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

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