

## FH series High temperature Super Long Life

- Load Life :130°C 5000 hours
- With high Ripple Current and high temperature130°C
- For Electronic Ballast,Power Supply
- ROHS compliant

### ■SPECIFICATIONS

Item	Performance Characteristics							
Operating Temperature Range	-40°C~130°C(160V~400VDC) -25°C~130°C(450VDC)							
Rated Voltage Range	160~450V							
Capacitance Range	1~68uF							
Capacitance Tolerance	±20%,120Hz,20°C							
Leakage Current (MAX)	V=160~400	V=450					After 1 minute application of rated voltage I=Leakage Current(uA) C=Nominal Capacitance(uF) V=Rated Voltage(V)	
	I=0.02CV+10uA	I=0.03CV+10uA						
Dissipation Factor (tan δ)	For capacitance of more than 1000uF, added 0.02 for every increase of 1000uF,measurement							
	Rated voltage(V)	160	200	250	350	400	450	MAX (20°C120Hz)
Low Temperature Stability Impedance Ratio	Tan δ							MAX (120Hz)
	Rated voltage(V)	160	200	250	350	400~420	450	
	Z(-25°C) / Z (+20°C)	3	3	3	4	4	5	
	Z(-40°C) / Z (+20°C)	6	6	6	6	6	6	
Load Life	After application of the rated DC voltage with rated ripple current at 130°C 5000hours or application of the rated DC voltage with rated ripple current at 105°C 15000hours,the capacitors shall meet the requirement bellow							
	Leakage Current	The initial specified value						
	Capacitance Change	±20% of initial value						
	Dissipation Factor	200% of the initial specified value						
Shelf Life	After leaving capacitors under no load at 105°C for 1000hours and applying voltage according to JIS C-5102 4-3,they meet the specified value for load life characteristics listed above.							
Accelerated Durability Test	Under the condition in of 145°C,applying the capacitor with the rated DC voltage under the rated ripple current for 1000 hours,then cooling the capacitor,the performance of capacitors should meet the following requirements							
	Leakage Current	The initial specified value						
	Capacitance Change	±20% of initial value						
	Dissipation Factor	200% of the initial specified value						
Standard	According to JIS C 5141							

### ■MULTIPLIER FOR RIPPLE CURRENT

#### Frequency coefficient

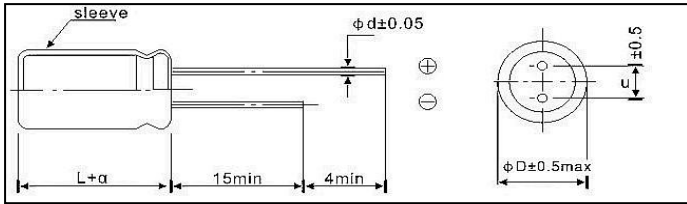
Frequency(Hz)	120	1k	10k	100k≤
Coefficient	0.50	0.80	0.90	1.00

#### Temperature coefficient

Temperature	65°C	75°C	85°C	105°C
Coefficient	1.78	1.70	1.40	1.00

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### ■DIMENSIONS(mm)



$\Phi D$	8	10	12	13	16	18
$\Phi d$	0.5	0.6		0.8		
F	3.5	5.0		7.5		
$\alpha$	L $\leq$ 16 : $\alpha$ =1.5 L $\geq$ 16 : $\alpha$ =2.0					

### ■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size  $\Phi D \times L$ (mm) Ripple Current(mA 105°C, 100KHz)r.m.s

W. V Cap (uF)	160		200		250		350		400		450	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1.0							8×12	55	10×13	60		
1.2							8×14	58	10×13	72		
1.8							10×16	65	10×16	75		
2.2					8×12	70	10×16	75	10×16	80	10×16	70
2.8			8×12	70	10×13	72	10×16	80	10×16	85	10×16	75
3.3	8×12	75	8×14	82	10×13	85	10×16	90	10×16	88	10×20	85
4.7	10×13	80	10×13	90	10×16	95	10×20	115	10×20	110	10×20	90
5.6	8×16	85	8×16	95	10×16	100	13×21	130	12×20	120	10×20 12×21	110 120
6.8	10×16	90	10×16	110	10×16 10×20	120 130	13×21	150	12×20	180	10×20 12×21	140 145
10	10×16	215	10×20	230	10×20	250	13×20	250	12×20	260	13×21	330
15	10×20	380	10×20	400	12×21	415	13×25	280	13×25	300	13×25	350
22	10×20	440	10×20 12×20	450 460	13×21	480	16×25	300	16×25	350	16×21 16×25	300 370
33	13×21	480	13×25	530	13×25	550	16×30	400	18×25	500	18×27	550
47	13×25	530	16×25	600	16×25	630	18×25	550	18×30	680	18×30	780
68	16×25	615	16×25	780	16×30	800						