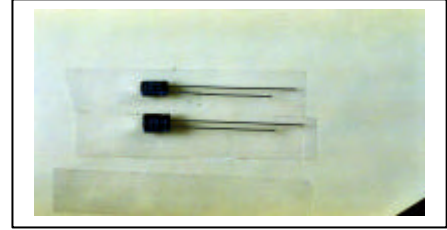


# SF Series

Features  
 Lifetime: 85, 1000hrs  
 Low profile/Ultra -miniature  
 5mm height

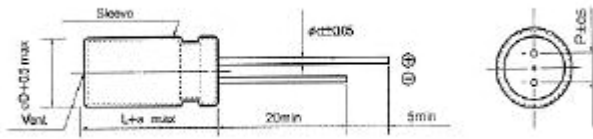
Recommended Applications  
 AV(TV, Video, Audio)  
 Monitor/Computer  
 OA/HA/Communication  
 Small signal



## Specifications

Items	Characteristics								
Capacitance Tolerance	± 20% (M) (120Hz, 20 )								
Rated Voltage Range (WV)	4~50 VDC								
Operating Temperature Range	-40 ~ +85								
Surge Voltage (V) (20 )	WV	4	6.3	10	16	25	35	50	
	SV	5	8	13	20	32	44	63	
Leakage Current (Max) (20 )	I = 0.01CV or 3 μ A whichever is greater (After rated voltage applied for 2 minutes)								
	I= Leakage Current ( μ A) C= Nominal Capacitance ( μ F) V= Rated Voltage (V)								
Dissipation Factor (Max) (tan ) (120Hz, 20 )	WV	4	6.3	10	16	25	35	50	
	tan	0.35	0.24	0.20	0.16	0.14	0.12	0.10	
Low Temperature Stability Impedance Ratio (Max)	WV		4	6.3	10	16	25	35	50
	Z (120Hz)								
	Z(-25 ) / Z(20 )		6	4	3	2	2	2	2
Load Life	After applying rated voltage for 1000 hours at 85 , the capacitor shall meet the following requirement.								
	Capacitance Change		Within ± 20% of the initial value						
	Dissipation Factor		Not more than 200% of the specified value						
Shelf Life	Leakage Current		Not more than the specified value						
	After placed at 85 without voltage applied for 500 hours, the capacitor shall meet the same requirement as load life.								
	Refer to JIS C 5101								
Applicable standards	Refer to JIS C 5101								

## Dimensions (mm)



D	4	5	6.3
P	1.5	2.0	2.5
d	0.45	0.45	0.45
a	1.0	1.0	1.0

## Multiplier for Ripple Current

Frequency coefficient

Freq. (Hz)	50	120	1K	10K
WV (VDC)				
4~16	0.80	1.00	1.10	1.20
25~50	0.80	1.00	1.50	1.70

Temperature coefficient

Ambient Temperature ( )	50	70	85
Coefficient	1.36	1.25	1.00



**Case Size / Max Ripple Current**

CASE SIZE ( DxL(mm) ) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,85 )

WV	4		6.3		10		16		25		35		50	
SPEC μ F	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
0.1													4x5	1
0.22													4x5	2
0.33													4x5	3
0.47													4x5	5
1													4x5	10
2.2													4x5	15
3.3													4x5	20
4.7							4x5	10	4x5	15	4x5	20	5x5	25
10			4x5	20	4x5	20	4x5	25	4x5	30	5x5	35	6.3x5	40
22	4x5	25	4x5	30	5x5	30	5x5	35	5x5	40	6.3x5	55	6.3x5	60
33	4x5	30	5x5	35	5x5	40	5x5	45	6.3x5	60				
47	5x5	35	5x5	40	6.3x5	50	6.3x5	60						
100	6.3x5	60	6.3x5	70	6.3x5	75	6.3x5	95						
220	6.3x5	80	6.3x5	95										