



FX 5mm height Series

- Features: 105°C 1000 hours , 5.0mm height
- Recommended Applications: Applicable for VTR , Camera , Car Audio , Miniaudio and other industrial /commercial applications
- Corresponding product to RoHS

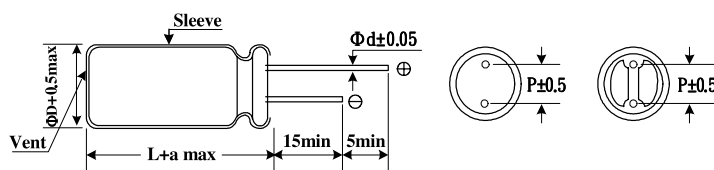
FX
 ↑ High Temperature
 SF



Specifications

Item	Characteristics							
Operating Temperature Range	-40 ~ +105°C							
Rated Voltage Range	4 ~ 50VDC							
Rated Capacitance Range	0.1 ~ 470μF							
Capacitance Tolerance	± 20 % at 120Hz , 20°C							
Leakage Current (MAX) (20°C)	I=0.01CV or 3(μA) , whichever is greater. (After rated voltage applied for 2 minutes)							
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	WV	4	6.3	10	16	25	35	50
	tan δ	0.35	0.24	0.20	0.17	0.15	0.12	0.10
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	4	6.3	10	16	25	35	50
	Z(-25°C) / Z(+20°C)	6	4	3	2	2	2	2
	Z(-40°C) / Z(+20°C)	12	8	6	4	4	3	3
Endurance	After apply rated voltage for 1000 hrs at 105°C , the capacitors shall meet the following requirements.							
	Capacitance Change	Within ± 20 % of initial value						
	Dissipation Factor	Not more than 200% of the specified value						
Shelf Life	After placed at 105°C without voltage applied for 500 hours, the capacitors shall meet the same requirement as Endurance.							

Dimensions



φ D	4.0	5.0	6.3	8.0
P	1.5	2.0	2.5	3.5
φ d	0.45			
a	1.0			

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	120	300	1K	10K
0.1~47 μ F	1.00	1.20	1.30	1.50
100~330 μ F	1.00	1.10	1.15	1.20

Temperature coefficient

Ambient Temperature (°C)	≤ 50	70	85	105
Coefficient	1.90	1.75	1.40	1.00



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■ **Dimensions, Rated Ripple Current**

Capacitance (μF)	Rated (Surge) Voltage													
	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													4x5	1
0.22													4x5	2
0.33													4x5	3
0.47													4x5	4
1.0													4x5	9
2.2													4x5	13
3.3													4x5	17
4.7							4x5	20	4x5	16	4x5	18	4x5	17
													5x5	20
10			4x5	18	4x5	20	4x5	23	4x5	20	5x5	30	6.3x5	33
									5x5	27				
22	4x5	20	4x5	28	5x5	33	4x5	29	6.3x5	42	6.3x5	48	6.3x5	55
							5x5	37						
33	4x5	25	4x5	33	4x5	34	5x5	44	5x5	45				
					5x5	41	6.3x5	49	6.3x5	53				
47	5x5	30	4x5	35	5x5	46	5x5	54	5x5	55				
			5x5	45			6.3x5	58	6.3x5	65				
68					6.3x5	54								
100	6.3x5	50	5x5	55	6.3x5	80	6.3x5	85	8x5	90				
			6.3x5	70										
220	6.3x5	70	6.3x5	90										
330	8x5	110	8x5	115										
470			8x5	100										

☆ Size: D φ x L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz