

KXF SERIES
105°C 20mm Height

•Load Life : 105°C 3000 hours.

 RoHS
compliance

◆SPECIFICATIONS

Items	Characteristics																																							
Category Temperature Range	-40~+105℃					-25~+105℃																																		
Rated Voltage Range	10~100Vdc					160~450Vdc																																		
Capacitance Tolerance	±20% (20℃, 120Hz)																																							
Leakage Current(MAX)	I=3 √CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																							
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>160~450</td></tr><tr><td>tanδ</td><td>0.55</td><td>0.50</td><td>0.45</td><td>0.40</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.20</td></tr></table> (20℃, 120Hz)										Rated Voltage (Vdc)	10	16	25	35	50	63	80	100	160~450	tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20										
Rated Voltage (Vdc)	10	16	25	35	50	63	80	100	160~450																															
tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20																															
Endurance	After applying rated voltage with rated ripple current for 3000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="9">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="9">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="9">Not more than the specified value.</td></tr></table>										Capacitance Change	Within ±20% of the initial value.									Dissipation Factor	Not more than 200% of the specified value.									Leakage Current	Not more than the specified value.								
Capacitance Change	Within ±20% of the initial value.																																							
Dissipation Factor	Not more than 200% of the specified value.																																							
Leakage Current	Not more than the specified value.																																							
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>10~100</td><td>160~250</td><td>315~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>3</td><td>8</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>12</td><td>—</td><td>—</td></tr></table> (120Hz)										Rated Voltage (Vdc)	10~100	160~250	315~450	Z(-25℃)/Z(20℃)	3	3	8	Z(-40℃)/Z(20℃)	12	—	—																		
Rated Voltage (Vdc)	10~100	160~250	315~450																																					
Z(-25℃)/Z(20℃)	3	3	8																																					
Z(-40℃)/Z(20℃)	12	—	—																																					

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60 (50)	120 (100)	300	500	1k	10k ≤
Coefficient	10~100Vdc	0.90	1.00	1.03	1.05	1.10	1.15
	160~250Vdc	0.80	1.00	1.15	1.20	1.30	1.50
	315~450Vdc	0.80	1.00	1.15	1.20	1.25	1.40

◆OPTION

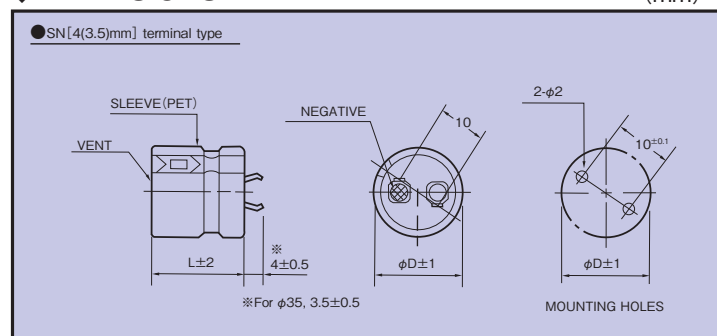
	Code
PET Sleeve without plate	EFC

◆PART NUMBER

Rated Voltage	KXF Series	Capacitance	Capacitance Tolerance M	Option	SN Terminal Code	DXL Case Size

◆DIMENSIONS

(mm)



◆STANDARD SIZE

Cap(μF) \ Vdc	10	16	25	35	50	63	80	100
330								20×20 0.60
390								20×20 0.71
470							20×20 0.65	22×20 0.78
560							20×20 0.70	25×20 0.95
680						20×20 0.83	22×20 0.84	25×20 1.09
820						22×20 0.99	25×20 1.04	30×20 1.32
1000					20×20 0.87	22×20 1.10	25×20 1.19	
1200					22×20 1.02	25×20 1.20	30×20 1.44	
1500				20×20 0.80	25×20 1.15	30×20 1.47		
1800				22×20 0.94	25×20 1.34	30×20 1.52		
2200			20×20 0.98	22×20 1.04	30×20 1.60			
2700			22×20 1.08	25×20 1.29				
3300		20×20 1.06	22×20 1.29	30×20 1.45				
3900		20×20 1.25	25×20 1.58					
4700	20×20 0.98	22×20 1.38	25×20 1.61					
5600	20×20 1.16	25×20 1.68						
6800	22×20 1.31	25×20 1.80						
8200	25×20 1.59							
10000	25×20 1.77							

Cap(μF) \ Vdc	160	180	200	220	250	315	350	385
39								20×20 0.35
47							20×20 0.38	20×20 0.38
56						20×20 0.41	20×20 0.40	22×20 0.42
68						22×20 0.48	22×20 0.45	25×20 0.50
82						22×20 0.51	25×20 0.54	25×20 0.52
100						25×20 0.57	25×20 0.57	30×20 0.61
120					20×20 0.65	30×20 0.65	30×20 0.65	30×20 0.64
150				20×20 0.70	22×20 0.74	30×20 0.70	35×20 0.78	35×20 0.80
180		20×20 0.80	20×20 0.80	22×20 0.80	22×20 0.77	35×20 0.85	35×20 0.85	
220	20×20 0.81	22×20 0.90	22×20 0.87	25×20 0.85	25×20 0.95	35×20 0.90		
270	22×20 0.98	22×20 0.95	25×20 0.95	25×20 1.02	30×20 1.00			
330	25×20 1.02	25×20 1.15	25×20 1.15	30×20 1.12	30×20 1.16			
390	25×20 1.25	25×20 1.20	30×20 1.20	30×20 1.25	35×20 1.25			
470	30×20 1.30	30×20 1.36	30×20 1.41	35×20 1.45				
560	30×20 1.46	30×20 1.43	35×20 1.43					
680	35×20 1.51	35×20 1.51						
820	35×20 1.55							

Cap(μF) \ Vdc	400	420	450
39			20×20 0.36
47	20×20 0.39	20×20 0.38	20×20 0.41
56	20×20 0.40	22×20 0.45	22×20 0.43
68	22×20 0.49	22×20 0.48	25×20 0.50
82	25×20 0.55	25×20 0.53	25×20 0.53
100	25×20 0.60	30×20 0.58	30×20 0.61
120	30×20 0.75	30×20 0.70	30×20 0.70
150	30×20 0.80	35×20 0.80	35×20 0.80
180	35×20 0.85		

↑ Ripple Current (A r.m.s./120Hz, 105°C)
 Case Size φD×L(mm)