YXF SERIES

105℃ Long Life



•Load Life : 105℃ 4000~10000 hours.

RoHS compliance

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40~+105℃
Rated Voltage Range	6.3~100Vdc
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.
Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

Endurance

Capacitance Change	Within ±25% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time (hrs)	
	6.3~10Vdc	16~100Vdc
φD≦6.3	4000	5000
φD=8,10	6000	7000
φD≧12.5	8000	10000

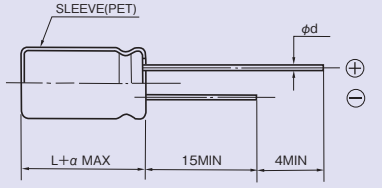
Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
Z(−25℃)/Z(20℃)	4	3	2	2	2	2	2	2
Z(−40℃)/Z(20℃)	8	6	4	3	3	3	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency(Hz)		120	1k	10k	100k≦
Coefficient	1uF	0.35	0.60	0.80	1.00
	2.2~10uF	0.42	0.60	0.80	1.00
	22~33uF	0.55	0.75	0.90	1.00
	47~330uF	0.70	0.85	0.95	1.00
	470~1000uF	0.75	0.90	0.98	1.00
	2200~15000uF	0.80	0.95	1.00	1.00

◆DIMENSIONS (mm)



φD	5	6.3	8	10	12.5	16	18
φd	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0		7.5	
α	L≦16 : α=1.5 L≧20 : α=2.0						

◆PART NUMBER

□□□	YXF	□□□□□	M	□□□	□□	DXL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆OPTION

	Code
PET Sleeve	EFC

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
6.3	100	5×11	150	0.90	3.6
	220	6.3×11	250	0.40	1.6
	330	6.3×11	250	0.40	1.6
	470	8×11.5	400	0.25	1.0
	1000	10×12.5	580	0.16	0.65
	2200	12.5×20	1300	0.062	0.21
	3300	12.5×20	1300	0.062	0.21
	4700	16×25	1850	0.034	0.096
	6800	16×25	1850	0.034	0.096
	10000	16×31.5	2000	0.029	0.087
	15000	18×35.5	2200	0.025	0.058
10	100	5×11	150	0.90	3.6
	220	6.3×11	250	0.40	1.6
	330	8×11.5	400	0.25	1.0
	470	8×11.5	400	0.25	1.0
	1000	10×16	770	0.12	0.46
	2200	12.5×20	1300	0.062	0.21
	3300	12.5×25	1650	0.048	0.16
	4700	16×25	1850	0.034	0.096
	6800	16×31.5	2000	0.029	0.087
	10000	18×35.5	2200	0.025	0.058
16	47	5×11	150	0.90	3.6
	100	6.3×11	250	0.40	1.6
	220	8×11.5	400	0.25	1.0
	330	8×11.5	400	0.25	1.0
	470	10×12.5	580	0.16	0.65
	1000	10×20	1050	0.078	0.30
	2200	12.5×25	1650	0.048	0.16
	3300	16×25	1850	0.034	0.096
	4700	16×31.5	2000	0.029	0.087
	6800	18×35.5	2200	0.025	0.058
25	33	5×11	150	0.90	3.6
	47	5×11	150	0.90	3.6
	100	6.3×11	250	0.40	1.6
	220	8×11.5	400	0.25	1.0
	330	10×12.5	580	0.16	0.65
	470	10×16	770	0.12	0.46
	1000	12.5×20	1300	0.062	0.21
	2200	16×25	1850	0.034	0.096
	3300	16×31.5	2000	0.029	0.087
	4700	18×35.5	2200	0.025	0.058
35	33	5×11	150	0.90	3.6
	47	6.3×11	250	0.40	1.6
	100	8×11.5	400	0.25	1.0
	220	10×12.5	580	0.16	0.65
	330	10×16	770	0.12	0.46
	470	10×20	1050	0.078	0.30
	1000	12.5×25	1650	0.048	0.16
	2200	16×31.5	2000	0.029	0.087
	3300	18×35.5	2200	0.025	0.058

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
50	1	5×11	30	4.0	8.0
	2.2	5×11	43	2.5	6.0
	3.3	5×11	53	2.2	5.6
	4.7	5×11	88	1.9	5.0
	10	5×11	100	1.5	4.0
	22	5×11	150	0.90	3.6
	33	6.3×11	250	0.40	1.6
	47	6.3×11	250	0.40	1.6
	100	8×11.5	400	0.25	1.0
	220	10×16	770	0.12	0.46
	330	10×20	1050	0.078	0.30
	470	12.5×20	1300	0.062	0.21
	1000	16×25	1850	0.034	0.096
	2200	18×35.5	2200	0.025	0.058
63	10	5×11	87	2.3	9.3
	22	6.3×11	140	1.3	5.2
	33	6.3×11	140	1.2	5.0
	47	8×11.5	210	0.63	2.8
	100	10×12.5	300	0.43	1.8
	220	10×20	520	0.21	0.84
	330	12.5×20	660	0.16	0.64
	470	12.5×25	750	0.12	0.45
	1000	16×31.5	1390	0.054	0.20
100	1	5×11	20	4.5	15.0
	2.2	5×11	30	3.0	13.0
	3.3	5×11	40	2.7	11.0
	4.7	5×11	65	2.5	10.0
	10	6.3×11	140	1.2	5.0
	22	8×11.5	160	0.63	2.8
	33	10×12.5	230	0.43	1.8
	47	10×16	290	0.31	1.5
	100	12.5×20	430	0.16	0.64
	220	16×25	900	0.073	0.27
	330	16×25	900	0.073	0.27

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