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

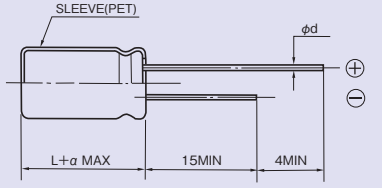
Low Temperature Stability Impedance Ratio(MAX)

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

Mouser Electronics

Authorized Distributor

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Rubycon:

6.3YXF1000MEFC10X12.5 25YXF220MEFC8X11.5 100YXF4R7MEFC5X11 63YXF470MEFC12.5X25
50YXF220MEFC10X16 6.3YXF220MEFC6.3X11 100YXF330MEFC16X25 50YXF10MEFC5X11
100YXF47MEFC10X16 6.3YXF15000MEFC18X35.5 25YXF330MEFC10X12.5 25YXF2200MEFC16X25
16YXF100MEFC6.3X11 6.3YXF10000MEFC16X31.5 35YXF220MEFC10X12.5 50YXF1MEFC5X11
63YXF330MEFC12.5X20 50YXF100MEFC8X11.5 6.3YXF100MEFC5X11 6.3YXF6800MEFC16X25
25YXF3300MEFC16X31.5 50YXF4R7MEFC5X11 100YXF100MEFC12.5X20 50YXF22MEFC5X11
16YXF47MEFC5X11 25YXF47MEFC5X11 50YXF2200MEFC18X35.5 16YXF220MEFC8X11.5 50YXF3R3MEFC5X11
10YXF1000MEFC10X16 63YXF100MEFC10X12.5 16YXF330MEFC8X11.5 35YXF330MEFC10X16
6.3YXF330MEFC6.3X11 35YXF47MEFC6.3X11 63YXF33MEFC6.3X11 100YXF1MEFC5X11
35YXF1000MEFC12.5X25 35YXF100MEFC8X11.5 63YXF220MEFC10X20 63YXF47MEFC8X11.5
10YXF6800MEFC16X31.5 63YXF22MEFC6.3X11 25YXF470MEFC10X16 100YXF22MEFC8X11.5
6.3YXF4700MEFC16X25 16YXF2200MEFC12.5X25 16YXF1000MEFC10X20 10YXF100MEFC5X11
50YXF2R2MEFC5X11 10YXF470MEFC8X11.5 6.3YXF470MEFC8X11.5 10YXF2200MEFC12.5X20
100YXF3R3MEFC5X11 10YXF4700MEFC16X25 100YXF220MEFC16X25 10YXF330MEFC8X11.5
63YXF10MEFC5X11 63YXF1000MEFC16X31.5 50YXF1000MEFC16X25 35YXF2200MEFC16X31.5
100YXF10MEFC6.3X11 10YXF10000MEFC18X35.5 25YXF4700MEFC18X35.5 6.3YXF3300MEFC12.5X20
50YXF47MEFC6.3X11 35YXF470MEFC10X20 35YXF3300MEFC18X35.5 16YXF3300MEFC16X25
10YXF220MEFC6.3X11 100YXF2R2MEFC5X11 16YXF470MEFC10X12.5 100YXF33MEFC10X12.5
35YXF33MEFC5X11 50YXF33MEFC6.3X11 25YXF100MEFC6.3X11 50YXF330MEFC10X20
25YXF1000MEFC12.5X20 25YXF33MEFC5X11 16YXF6800MEFC18X35.5 16YXF4700MEFC16X31.5
50YXF470MEFC12.5X20 10YXF3300MEFC12.5X25 6.3YXF2200MEFC12.5X20 63YXF100MEFCT810x12.5